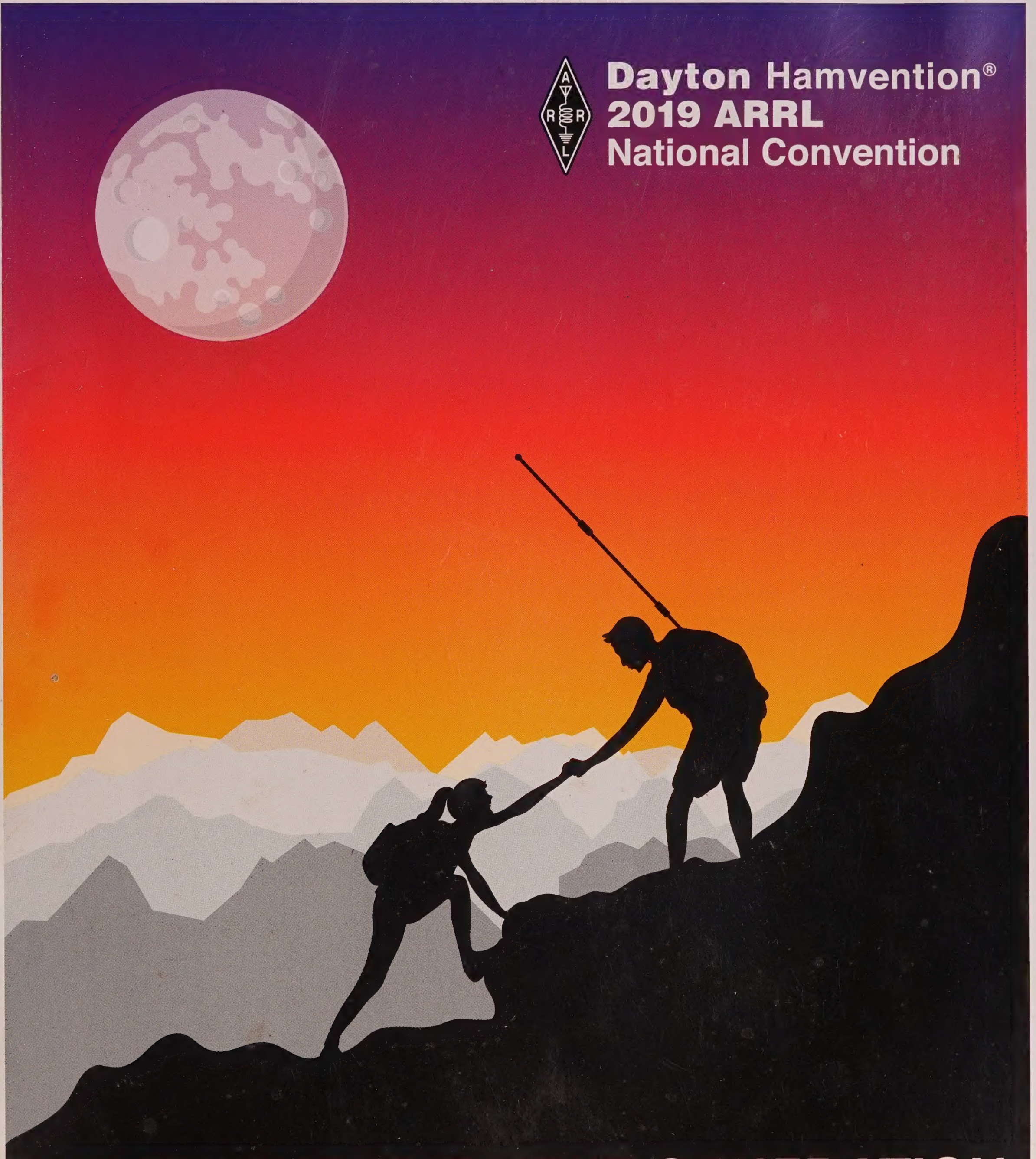


Dayton Hamvention®
2019 ARRL
National Convention

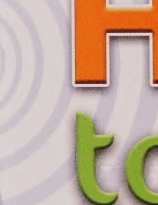
MENTORING THE NEXT GENERATION

HAMVENTION® 2019

Welcome! Dayton Hamvention® to GREENE COUNTY

CONVENTION & VISITORS BUREAU
GREENE COUNTY
OHIO
greenecountyohio.org
COLOR OUTSIDE THE LINES

The Greene County Convention & Visitors Bureau would like to welcome Dayton Hamvention to Greene County and wish them the very best success.
To find out more about Greene County stop by our booth and pick up a FREE Visitors Guide or visit our web site at www.greenecountyohio.org



Stop by our booth and pick up a FREE souvenir collectors pin!

greenecountyohio.org
1221 Meadow Bridge Drive, Beavercreek, OH 45434 • 937.429.9100

Welcome to the 2019 Dayton Hamvention

Mentoring the Next Generation

Welcome and thank you for joining us at HV!9. Since our move to Greene County, we have learned quite a bit about our new home at the Expo Center. Our first year was a challenge with big lessons learned. Based on those lessons we accomplished some very major improvements (paving the flea market area, clear span tents, and additional inside space, etc.). This year we have continued working with the community and investing in our new home with additional improvements.

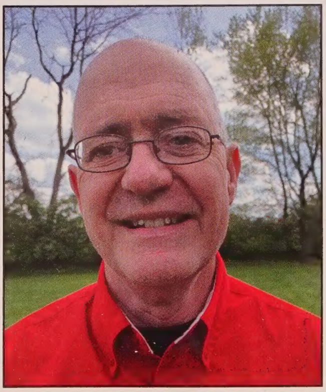
The theme "Mentoring the Next Generation" is very personal to me. It was a Jr. High School teacher that got me started in Ham Radio. My "Elmer" WB4WSG (SK) never really knew the impact that he had on my professional life. As we travel through life, we will meet special people, and a few of them, will have a profound impact on our lives. It is important to remember those who have helped us. In remembering our "Elmer's", we can pay them homage by being available and helping others along their journey. The world of Ham Radio has offered me many great opportunities. It is now my turn, to pay it forward!

I challenge everyone this year to make an effort to improve Amateur Radio. Pick something you are passionate about, mentoring, DXing, digital modes, field day, or supporting club activities, etc. By getting involved you never know the positive impact you may have on someone else's life.

On behalf of all the volunteers, the Dayton Amateur Radio Association's Board of Directors, and my Assistant General Chair, Rick Allnutt, WS8G, thank you for being here and being a part of Hamvention history.

Jack Gerbs, WB8SCT
Hamvention General Chair 2019

Jack Gerbs, WB8SCT
General Chairman



Rick Allnutt, WS8G
Assistant General Chairman

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Comments Invited!

Comments on your experiences at the Dayton Hamvention should be addressed to the following:

General Chairman
Dayton Hamvention
P.O. Box 964
Dayton, Ohio 45401-0964

The Dayton Hamvention Program is published by the Hamvention Committee. Permission is granted for reprinting articles, provided credit is given to the original author and the Hamvention Program.

Design and Layout

Program was created by Charles Wright, K8MDB

Souvenir Program Committee

Chair	Charles Wright, K8MDB
Asst. Chair	Linda Kalter, W8AAV
Proofreaders	Ron Cramer, KD8ENJ Linda Kalter, KD8YQU Jim Shaw, AL7BA

The Dayton Amateur Radio Association (DARA) and Hamvention fully support and are committed to the objectives of the Americans with Disabilities Act (ADA). We strive to provide equal opportunity to all ADA qualified persons who participate in Hamvention. Our objective is to provide access to the event and we expect nothing less of those who provide building facilities, exhibits and services at our event.

Future Hamvention Dates

May 15, 16, & 17, 2020
May 20, 21, & 22, 2021
May 20, 21, & 22, 2022

Hamvention Phone Numbers

Emergency	(937) 276-6930
Inside Exhibits	(937) 276-6931
Flea Market	(937) 276-6932
Prizes	(937) 668-5311

Activities & Times

FRIDAY ACTIVITIES

9:00 a.m. - 5:00 p.m.	Flea Market open. Bus service runs 7:00 a.m. - 6:00 p.m.
9:00 a.m. - 5:00 p.m.	Inside Exhibits open, prizes on display.
9:15 a.m. - 5:00 p.m.	Forums and scheduled activities.
9:00 a.m. - 2:00 p.m.	Amateur Radio License Exams.
10:00 a.m. - 4:00 p.m.	Hourly prize drawings.

SATURDAY ACTIVITIES

9:00 a.m. - 5:00 p.m.	Flea Market open. Bus service runs 7:00 a.m. - 6:00 p.m.
9:00 a.m. - 5:00 p.m.	Inside Exhibits open. Prizes on display and Exams.
9:15 a.m. - 5:00 p.m.	Forums and scheduled activities.
9:00 a.m. - 4:00 p.m.	Hourly prize drawings.
9:00 a.m. - 2:00 p.m.	Amateur Radio License Exams.

SUNDAY ACTIVITIES

9:00 a.m. - 1:00 p.m.	Flea Market open. Bus service runs 7:00 a.m. - 4:30 p.m.
9:00 a.m. - 1:00 p.m.	Inside Exhibits open, prizes on display.
10:00 a.m. - 11:00 p.m.	Prize drawings, must be claimed by noon.
9:15 a.m. - 12:00 p.m.	Forums and scheduled activities.
1:00 p.m.	Award Winners' Presentation in Forums 1 & 2.
1:00 p.m.	Prize Drawing (unclaimed hourly prizes, followed by main prizes) in Forums 1 & 2. Bus Service will be available for a short time after the main prize drawing.

2019 Hamvention Souvenir Patches & Lanyards

The DARA Amateur Radio
Boy Scout Venturing Crew 73 is proud to announce our 2019 souvenir patch.

Celebrating 50 years of AMSAT in Space.

We are proud to be allowed to promote AMSAT's 50 years of Ham Radio in Space on this year's patch. Be sure and get your patch early.

We also will be offering the DAYTON HAMVENTION 2019 souvenir lanyards.

We will be in two locations this year, a tent just outside the main gate and Building 4 booth 4010 just up the aisle from the Prize Booth.

2019 Souvenir PATCH...................... $ 5.oo

All lanyards include laminating your Dayton Hamvention admission ticket.

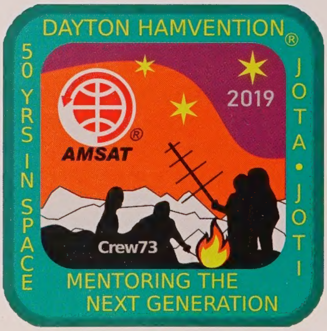
2019 Souvenir lanyards...................... $ 4.oo

We will also laminate other items for a nominal fee.

Hours	**Outside Tent**	**Inside Booth 4010**
Friday & Saturday	7:30 am - 3 pm	9:00 am - 4 pm
Sunday	Closed	9:00 am - noon

Stop by with your children and have them get a surprise that will make them feel they are "little hams".

Thank you for supporting the DARA Amateur Radio Boy Scout Venturing Crew 73.



The 2018 show was only open 30 minutes on Friday when we ran out of Patches. We have more this year but expect them to sell quickly.

While supplies last.

Services

INFORMATION

Information Booths are located inside the main pedestrian gate, outside the main pedestrian gate and rear walking gate to the flea market.

DARA MEMBERSHIP

DARA membership is located in Building 4, "Volta". (See map pages.)

EMERGENCY MEDICAL CARE

Hamvention will have medical staff on site during show hours. Emergency care is also available from the following:

Greene Memorial Hospital
1141 N Monroe Dr, Xenia, OH 45385

LOST & FOUND

The Information Booth inside the main pedestrian gate will accept lost items. Items can be retrieved at this location the day the item is lost. Items can be retrieved at this location on Friday between 9 to 5pm, Saturday between 9 to 5pm, and Sunday 9 to 1pm.

MESSAGE CENTER

Leave a message for your friends by submitting their call sign and message at the Prize Booth. Prize monitors throughout the arena complex will periodically list "message holding" by call sign.

FREE LICENSE EXAMS

Have you been thinking of about upgrading your license? Take a short ride across the street and visit the Hamvention License Exams. We are ready to assist you in taking that big step to a new license.

Free license exams will be given across the street from Hamvention at Memorial United Presbyterian Church, 343 West Ankeney Mill Rd.

Testing for all amateur license classes will be available on Friday, May 17th and on Saturday, May 18th. Hours for testing both days will be 9:00 a.m. until 2:00 p.m. There will be no testing on Sunday.

Free shuttle vans are provided from the Hamvention site to the testing location and back. Shuttles will pick up and drop off near the main Hamvention gate.

Exams will be given on a first-come, first-served basis. There is no pre-registration. Large print exams will be available at all test sessions as will assistance for those who may have special needs. All are encouraged to come and take a test.

Each applicant must have the following:

*Due to recent changes by the FCC it is very important that new license applicants obtain an FRN before arriving to test. Failure to do so will delay being able to test

1) An FCC Registration number (FRN)

An FRN may be obtained by visiting the FCC at-https://apps.fcc.gov/cores/userLogin.do

From this page click on the REGISTER button and follow the instructions to create a username account. Once you have created a username account you will receive an email from the FCC with a link to confirm the account and apply for an FRN. Be sure to copy down the FRN number you are issued and bring it with you to the testing location.

2) Their current license (original copy, Reference Copy or Official Copy) if applicable.

3) The original and a copy of any CSCE or other paperwork (expired licenses, FCC letters, etc.) being submitted for element credit.

4) Identification (One of the following)

- a government-issued photo ID (e.g. driver's license, passport, CAC),
- a non-government issued photo ID (e.g. student ID),
- a non-photo ID (e. g. birth certificate).

Applicants may wish to bring a basic calculator for use during the exam as we have a limited number of basic calculators to loan. Use of smart phones and programmable calculators is prohibited.

SHIPPING SERVICE

The US Postal Service offers freight service from their booth in Watt Hall 6411 and 6412. Postal dropoff available during regular show hours.

Freight hour s are as follows:

Friday	11:00 a.m. - 5:00 p.m.
Saturday	11:00 a.m. - 5:00 p.m.
Sunday	10:00 a.m. - 1:00 p.m.

(Hours may vary: check the W8BI booth for changes)

SPECIAL EVENT STATION

Work the world from hamvention as w8bi at the 2019 special event station!

The station, located in the tesla building – E2 in spaces 2706 and 2707 will be operating during normal hamvention hours.

Frequencies (+/- qrm) will be: 40m, 20M , 17m ,10m.

CW will be tried on the hour as conditions permit. The station will have paddles for CW.

To operate the station you must have a copy of your license available.

TALK-IN FREQUENCIES

For directions and assistance in the Dayton area during your visit to Hamvention, contact "Talk-In" on the DARA Repeater 146.94(-) with a backup frequency of 146.985(-) pl 123.0. We will have a bulletin system transmitting on 145.525 where attendees and vendors can hear the latest information and updates and get answers to the most frequently asked questions. Please tune in to the bulletin and then return to the Talk-In frequency if you have other questions or need more detailed information.

Transportation & Parking

TRUCK & TRAILER PARKING

Semi-trucks and/or other oversized vehicles will park in the impound/tour bus lot. Use Gate 5 entrance and be directed to parking spot. If that becomes full, you will be redirected to a nearby lot within shuttle distance. Monitor Talk-In for early notice if lot is full. No overnight parking or camping is permitted, enforced by Greene County Sheriff. All vehicles must be removed by 9:00 p.m. Taxi lot across from gate 2. The city of Xenia has limited overnight truck parking located at their service garage facilities, 757 Towler Road, on a first come first serve basis. No shuttle service will be available from this location. Tour buses can unload at the bus station located at the swimming pool site.

CAMPER PARKING

On-site camping is managed by Greene County Fairgrounds office at 937-372-8621. No tent camping is permitted and no overnight camping is permitted in the flea market or the parking lot. Contact Greene County CVB (937-429-9100) or Montgomery County CVB (800-221-8235) for other available locations.

TEMPORARY LOADING PASS

A "Temporary Loading Pass" is available for guests to check heavy or large purchases at the Flea Market Will Call area and return with their vehicle to pick them up. The Will Call area is located along the front fence, next to Gate 1, across from the Flea Market Office. These passes act as a "Claim Check" and will be dated. Pass holders MUST return to the Will Call area via Gate 2 and must pick up their equipment before 6:00 pm on the day the pass was issued.

IMPORTANT NOTE: The Dayton Hamvention, Dayton Amateur Radio Association or any of their volunteers are not responsible for any items/equipment checked that are left over night.

Golf Cart Services

The Golf Cart Committee continues to provide no-cost shuttle rides and golf cart rides for customers to/from the ADA parking area and the general parking areas from 7:00 a.m. - one hour after closing. The golf carts can take you to the Flea Market Entrance. For safety reasons, we do not take passengers in and out of the Flea Market area.

ADA Handicap Parking

We have close to a thousand ADA spaces, most of which are on grass. They can be accessed either through Gate 3 or Gate 4 off Fairground Rd. You must have a state issued placard or license plate. Please have these visible before entering Gate 3 or Gate 4 off Fairground Rd. No claims of ADA compliance will be honored without a state issued placard or license plate. Space is available on a first come first served basis.

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Text "Hamvention19" to 888777

Scootaround
Mobility Product Rentals

SCOOTERS

Are you planning on attending? An electric scooter or wheelchair will ensure that you are able to see as much of the convention as possible.

While ScootAround will make every effort to accommodate all needs, you are encouraged to reserve in advance! To reserve your equipment call toll free (888) 441-7575 or complete the information form at the link listed below. We are happy to accept Visa and MasterCard for all rentals!

Website Rental Form:
http://locations.scootaround.com/DaytonHamvention

QSL Cards

Did you make contact with W8BI this year?

At DARA (W8BI) we have members who are passionate about utilizing our fantastic club-house and keeping our station on the air. If you hear us on the air be sure to make contact. You could see your QSL card printed in the program in future years. Here are just a few of the contacts W8BI made over the past 12 months!

ZL7TZ
Chatham Islands

In the early summer of 1791 a British exploring expedition set out from Australia for America via Tahiti in the "Discovery" and the armed tender "Chatham". The two ships became separated in a storm while south of New Zealand and "Chatham" came within sight of the Island group that now bears the ships name.

ZS8MI
MARION ISLAND 1989/90
RN2FQ
JG6CVO
JD1BFN
K9AJ/KH5K
1960
1961
1961
1969
1973
ON4UN
CT9/DL6MLA
unset in Fernando de Noronha
PY0F/PP1CZ
ZONE 31
IOTA OC48
GRID: 17.9N 77.6W
IOTA: 097
LOC: FK17ew
FISTS: 4847
FOC: 1925
CWOPS: 186
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MALVERN JAMAICA
DX CODE OF
MOTTO: OUT OF MANY, ONE PEOPLE
MONTEGO BAY
OCHO RIOS

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Be sure to enjoy the Greater Dayton area restaurants, attractions, and shops while you're here!

For more information contact us today at 800.221.8235 or daytoncvb.com.

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800.221.8235 daytoncvb.com

Hamvention Represented Around the World

In 2012 the DARA Board wanted to reciprocate the European presence at Dayton Hamvention. Since then we have been sending a team to Friedrichshafen, Germany to set up a booth and work the Ham Radio International event there. We take information about Dayton Hamvention and about DARA. Last year we had 64 countries from all around the globe in attendance at Dayton Hamvention.

MESSE FRIEDRICHSHAFEN
TAXI
WILLKOMMEN
GRÜEZI
Dayton Hamvention
Dayton Amateur Radio Association
W8BI
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Hamvention Represented Around the World

DARA is spreading the word with a booth and a team of our members taking advantage of plenty of international networking opportunities in both Germany at Friedrichschafen's Ham Radio and in Japan at Tokyo's Ham Fair!

Affiliated Events

Multi-Day Events

QRP ARCI FDIM (Four Days in May)
May 16-19, 2019
Registration at QRPARCI.org
Holiday Inn, Fairborn, Ohio
-Wednesday, May 15 Registration
-Thursday, May 16 QRP Symposium
-Thursday, May 16, 8-10 pm
Vendor Night. Free of charge
-Friday, May 17, 8-10 pm
QRP Club Night. Free of charge.
Homebrew Contest

Contest Super Suite
Wednesday, May 15 – Sat, May 18, 7:00 pm – 2 am
Crowne Plaza Dayton, 33 East 5th St, Dayton, OH 45402
Harding, McKinley, Garfield and Harrison rooms
Wednesday, May 15
Contest University registration from 8pm to 10 pm
Pizza party in the Harding Room sponsored by Mad River Radio Club (MRRC), Frankford Radio Club (FRC) and the North Coast Contesters (NCC) 10:30 pm
Thursday, May 16 7 pm
Harding, McKinley, Garfield and Harrison Rooms hosted by MRRC, NCC, FRC.
Pizza sponsored by PVRC 11:00 pm
Friday, May 17 7PM
Harding, McKinley, Garfield and Harrison Rooms hosted by MRRC, NCC, FRC.
Pizza Party sponsored by The Potomac Valley Radio Club (PVRC) 11:00 pm
Saturday, May 18 7PM
Harding, McKinley, Garfield and Harrison Rooms hosted by MRRC, NCC, FRC.
Pizza Party in the Harding Room sponsored by The Yankee Clipper Contest Club (YCCC) 11:00 pm
http://www.contestsupersuite.com

Winlink RMS eMail Server

The Ohio ARES District 3 Winlink Radio Message Server (RMS) Gateway, W8GCA is available to Hamvention Participants on 445.01 MHz.

Background: Winlink is an amateur radio email service that allows hams to originate and receive global email messages via HF, VHF, and UFH radio stations. Winlink is currently promoted by the ARRL and ARES organizations as a primary EmComm support tool.

Amateur Satellite Demonstrations Outside Main Entrance- Maxim Hall (Building 1) Friday, Saturday, Sunday 16-19, May 2019, 8:00-16:30 pm EDT

Friday Affiliated Events

ATV Friday Night Dinner
Saturday, May 18, 6:30-9:30 pm at China Garden Buffet, 112 Woodman Dr., Dayton, Ohio 45431 (Airway Shopping Center).

AMSAT Dinner
Thursday, 16 May 2019, 6pm-8pm
The annual AMSAT (Radio Amateur Satellite Corp.) “Dinner at Tickets” party will be held Thursday at 1800 EDT at Tickets Pub & Eatery at 7 W. Main St, Fairborn, OH. Bring some friends and have a great time the night before Hamvention.

Contest University
Thursday, May 16, 7am – 5pm
Crowne Plaza Dayton, 33 East 5th St., Dayton, OH 45402
Advance registration is needed. http://contestuniversity.com

TAPR/AMSAT Banquet
Friday, 17 May 2019, 6:30pm-9pm
Kohler Presidential Center on Friday at 18:30 EDT. Tickets ($40 each) may be purchased from the AMSAT store. The banquet ticket purchase deadline is Tuesday, May 15th. Banquet tickets must be purchased in advance and will not be sold at the AMSAT booth. There will be no tickets to pick up at the AMSAT booth. Tickets purchased online will be maintained on a list with check-in at the door at the banquet center. Seating is limited to the number of meals reserved with the Kohler caterers based on the number of tickets sold by the deadline.

Top Band Dinner – 27th Annual event
Friday, May 17 Presidential Ballroom, 6:00 pm social hour, 7:00 pm dinner
Crowne Plaza Dayton, 33 East 5th St, Dayton, OH 45402
Speaker- Ted Rapaport, N9NB
Limited seating - Reservations in advance only
http://www.topbanddinner.com

Affiliated Events

Collegiate Ham Radio Dinner
Friday May 17, 6:30pm – 9pm
Fox & Hound, 2661 Fairfield Commons Blvd, Beavercreek, OH 45431

Organizer: Magda Moses KM4EGE, on behalf of the Virginia Tech Amateur Radio Association
Contact: magda14@vt.edu (571) 355-8582
Facebook Event Page: https://www.facebook.com/events/685349425216265/

The Collegiate Ham Radio Dinner is a get-together of current and past collegiate ham radio operators, and anyone who shares an interest in college ham radio clubs and activities. Come meet members and alumni from clubs across the country, share your college ham radio experiences, and discuss the projects and activities you've done! High school students looking at colleges are encouraged to attend as this is an excellent opportunity to get an idea of what a college ham radio club has to offer.

This event is being organized by Magda Moses, KM4EGE, on behalf of the Virginia Tech Amateur Radio Association. Everyone is welcome! Feel free to contact Magda with any questions at magda14@vt.edu. RSVPs are highly encouraged and appreciated but not required.

ATV Friday Night dinner.
May 17, 6:30-9:30 pm at China Garden Buffet, 112 Woodman Dr., Dayton, Ohio 45431 (Airway Shopping Center). $11.99 (937-781-9999) All welcome. Dinner presentations and door prizes.

SWODXA Dinner
Friday, May 17, 6 PM
The Dayton Marriott
1414 S. Patterson Blvd. Dayton, Oh 45409
Cash bar- 5:30-11 pm
info@swodxaevents.org

Saturday Affiliated Events

Annual CW Pileup Competition
Kansas City DX Club Hospitality
Dayton Crowne Plaza Hotel-Suite 525
Saturday night beginning at 8PM

Contest Dinner – 27th Annual event
Saturday, May 18 Presidential Ballroom, 5:30 pm social hour, 6:30 pm dinner
Crowne Plaza Dayton, 33 East 5th St, Dayton, OH 45402
http://www.contestdinner.com
Master of Ceremonies: John Dorr, K1AR
Dinner Speaker: Ted Rappaport, N9NB
2019 CQ Contest Hall of Fame Inductions
Many contest operators from around the world attend this event. If you enjoy radio contesting, you do not want to miss this Contest Dinner!

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00700

2019 Dayton Hamvention Committee

Row 1 (Left to Right): Rick Allnutt WS8G, Leah Dalton N/C, Melissa Markland KD8LZH, Susan Jebens KD8AFP, Janese Brooks KD8DGB, Linda Kalter W8AAV, Liz Klinc KE8FMJ, Jack Gerbs WB8SCT, Hazel Everetts N8PTL, Janey Ruminski KB8PMF, Nancy Krodel KC8RMT, Randy Midkiff WB8ART, Gary Mullins K8UW, Jim Storms AB8YK
Row 2: Dave Crawford KF4KWW, Charles Wright K8MDB, Brian Markland N8UDQ, Jeff Ullery KD8SHF, Bob BakerN8ADO, Jeff Everetts N8IBW, Henry Ruminski W8HJR, Phil Gregg KC8GLA, Mike Buehler N8XGA, Jim Tiderman N8IDS, Ron Cramer KD8ENJ
Row 3: Mike Crawford KC8GLE, Jon Thuermer KB8SRQ, Richard Weiss AG6IG, Frank Beafore WS8B, Jim Schoettinger W8PLZ, Jim Nies WX8F, Keith Yarger KD8UYT, George Ewing WD8NHI, Phil Brown AC8UW
Row 4: Craig Miller KD8IJN, Chris Jebens KZ8XU, Dan Puckett W8AAU, Terry Scott NV8E, Gary Des Combes N8EMO, Reuben Meeks W8GUC, Dave Forbes KD8FO, Charles Kaiser KD8JZR, Dave Tritch N8YFQ, Steve Coy K8UD, Mark Atwell KD8DGH, Tom Gross KD8VLS
Row 5: Rob Gauder WD8CXV, Larry Sack N8QNM, Gary Sammons W9SAM, Ron Moorefield W8ILC, Joe Muchnij N8QOD, Dan Minnix KD8YNG, Steve Koogler K8DZ, John Mathis WA5FAC, Dave Smith KE8HNV, Rick Durrenberg KJ6OOM, Mark Tessneer KB8ZR, William Serrato W8CAN, Jeff DeVoe K8JTD

2019 Dayton Hamvention Committee

Administration

General Chairman Jack Gerbs, WB8SCT | Assistant General Chairman Richard A Allnutt, WS8G

COMMITTEES

Agency Liaison	Liaison	Cramer	Ron	KD8ENJ
Ambassador-at-Large	Ambassador at Large	Moorefield	Ron	W8ILC
Ambassador-at-Large	Ambassador at Large	Des Combs	Gary	N8EMO
Finance	Chair	Kalter	Michael	W8CI
Finance	Assistant Chair	Beafore	Frank	WS8B
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Information-Phone Line	Co-Chair	Roberts	Lynn	N8LXK
Phone Line/Info	Co-Chair	Roberts	Shirley	N8LX
Booth Tracker	Chair	Coy	Steve	K8UD
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Committee & Volunteer Services	Co-Chair	Everetts	Jeff	N8IBW
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DARA Membership	Assistant Chair	Serrato	William	W8CAN
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Information-Booth	Assistant Chair	Jebens	Susan	KD8AFP
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IT Infrastructure	Chair	Gerbs	Jack	WB8SCT
IT Infrastructure	Assistant Chair	Ewing	George	WD8NHI
Visual Information	Chair	Koogler	Steve	K8DZ
Visual Information	Assistant Chair	Forbes	Dave	KD8FO
Visual Information	Assistant Chair	Schoettinger	Jim	W8PLZ
Camping	Chair	Crawford	Mike	KC8GLE
Flea Market	Chair	Tritch	Dave	N8YFQ
Flea Market	Assistant Chair	Coy	Steve	K8UD
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Inside Exhibits	Assistant Chair	Berger	Mike	WD8OMX
Inside Exhibits	Inside Liaison	Gauder	Rob	WD8CXV
Inside Exhibits	Inside Manager	Markland	Mellissa	KD8LZH
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Advance Registration	Assistant Chair	Midkiff	Randy	WB8ART
Outgoing Mail	Chair	Kaiser	Charles	KD8JZR
Outgoing Mail	Assistant Chair	Frey	Jim	W8ISZ
Marketing	Chair	Wright	Chuck	K8MDB
Media	Chair	Ruminski	Henry	W8HJR
Media	Assistant Chair	Minnix	Dan	KD8YNG
Media	Assistant Chair	Ruminski	Janey	KB8PMF
Programs & Publications	Chair	Wright	Chuck	K8MDB
Programs & Publications	Assistant Chair	Kalter	Linda	W8AAV
Talk-In	Chair	Mullins	Gary	K8UW
Webmaster	Chair	Markland	Brian	N8UDQ
Webmaster	Assistant Chair	Ruminski	Henry	W8HJR
Live Streaming	Assistant Chair	Pucket	Dan	W8AAU
Live Streaming	Chair	Simpson	Jim	KF8J
Awards	Co-Chair	Beafore	Frank	WS8B
Awards	Co-Chair	Kalter	Michael	W8CI
Balloon Launch	Chair	Muchnij	Joe	N8QOD
Forums	Chair	Scott	Terry	NV8E
Forums	Assistant Chair	Meeks	Reuben	W8GUC
International Relations	Chair	Allnutt	Rick	WS8G
International Relations	Assistant Chair	Morton	Paul	KG8XY
License Exams	Chair	Jebens	Chris	KZ8XU
License Exams	Assistant Chair	Crawford	Dave	KF4KWW
Prizes	Chair	Klinc	Liz	KE8FMJ
Prizes	Assistant Chair	Gelm	Chuck	NC8Q
Special Event Station	Chair	Mathis	John	WA5FAC
Special Event Station	Assistant Chair	Lamb	Charlie	W4KZK
Special Event Station	Assistant Chair Local	Tiderman	Jim	N8IDS
Youth Tech	Chair	Ullery	Jeff	KD8SHF
Youth Tech	Assistant Chair	Smith	David	KE8HNV
Communications	Chair	Baker	Bob	N8ADO
Communications	Assistant Chair	Brooks	Janese	KD8DGB
Golf Carts	Chair	Buehler	Mike	N8XGA
Golf Carts	Assistant Chair	Richard	Weis	AG6IZ
Signs and Fences	Chair	Brown	Phil	AC8UW
Signs and Fences	Assistant Chair	Davis	Wes	KE8HAF
Parking	Chair	Gross	Tom	KD8VLS
Parking	Assistant Chair	Atwell	Mark	KD8DGH
Parking	Assistant Chair	Sammons	Sam	W9SAM
Security	Chair	Durrenberg	Rick	KJ6OOM
Security	Assistant Chair	Wright	Katie	

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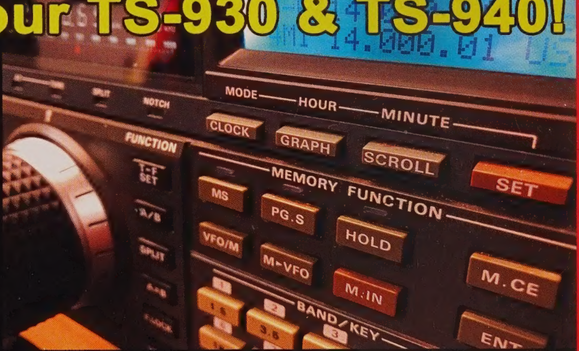
MODE
HOUR
MINUTE
CLOCK
GRAPH
SCROLL
SET
FUNCTION
MEMORY FUNCTION
MS
PG.S
HOLD
VFO/M
M▸VFO
M.IN
M.CE
BAND/KEY

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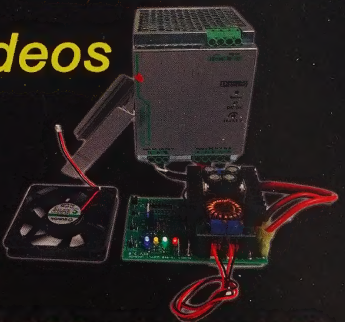
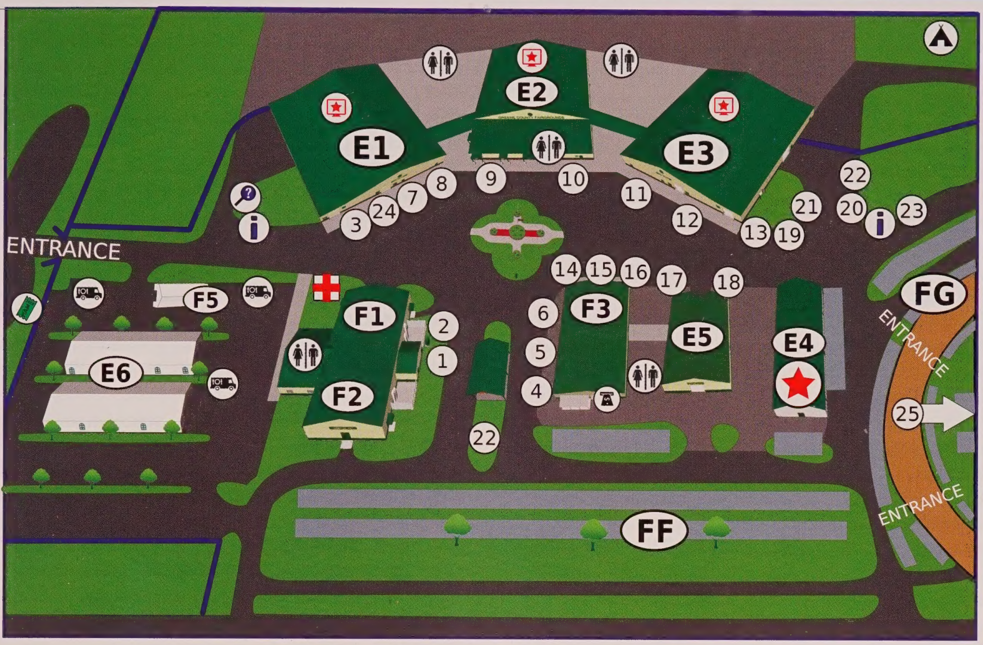

TS-940S Supply Upgrade Kit

Food Vendors


E1
E2
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E5
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F2
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FG
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ENTRANCE
ENTRANCE
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Food Vendors

① Rader's Ice Cream
② Louisiana Grill
Bourbon Chicken
③ The Tin Cup Tea Cart
④ R + B Food
Breakfast Sandwiches
⑤ Hawkins Family BBQ
⑥ Chinese Food
⑦ Down's Cajun Food
⑧ Steak on a Stick
⑨ Cork & Bottle
Grilled Pork Chops
⑩ Granny Framers Noodles
⑪ Pizza
⑫ Sausage
⑬ Corn Dog, Chicken
& Fries
⑭ Jean's Home Cooking
⑮ Kettle Corn &
Cheesecake on a stick
⑯ Hamburgers &
Breakfast Sandwiches
⑰ Steak on a Stick
⑱ Soft Serve Ice Cream
⑲ Fish Caboose
⑳ Rib-N-it-Ribs
㉑ Los Mariachis's
Mexican Food
㉒ Beer Tent
㉓ Mr Mojo coffee
㉔ Young's Cheese Curds
& Ice Cream
㉕ Lions Club - water
Flea Market Infield

Exhibitors

10-10 International Net, Inc.	3810
4 Paws for Ability	6404
405 Laserworks LLC	1907
ABR Industries	3211
Air Chair	6501-6502
Airspy.US	1201-1202
Albuquerque DX Association	1909
ALEXLOOP	3109
Alfa Radio Ltd	2106,2206
Alinco Inc.	3007-3008
Alpha Antenna	3207
Alpha RF Systems \ Dishtronix \ Ten-Tec	1807-1809
ALUMA TOWER COMPANY	6512
Amateur Television Network	6101-6102
Ameritron	1706,1806
AMSAT (Radio Amateur Satellite Corp.)	1007-1010, 1107-1110
AREDN / Miami Valley Mesh Alliance	1001
ARRL	2001-2004, 2101-2104, 2201-2204, 2301-2304, 2401-2404
Arrow Antenna	1106
Aventrade	3006
Batteries America	3808-3809
Begali Keys	2307-2308, 2407-2408
Belden	5303
BHI Ltd	1911
Bird	4311
Brian Klein Enterprises	6107-6108
BRIDGECOM SYSTEMS, INC.	1103-1104
Buckmaster Publishing	5106
Buddipole	3003-3005
Cable Experts	1701-1702
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Christian Amateur Radio Fellowship	6309
Civil Air Patrol	6304
Collins Collectors Association	1003-1004
Comet Antenna / Daiwa Meters	3304-3306
COMPACtenna	6609
Connect Systems Inc.	6208
Courage Kenny Handiham Program	6602
CQ Communications, Inc.	4307
Cushcraft Amateur Radio Antennas	1905-1906
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DARA - International Relations	2601
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Dayton Skywarn	4308.
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Digilent	3002
DX Engineering	1207-1210, 1308-1311
DZKit	6610
Early Alert	5104
Ears To Our World	6510
E-Blox Inc	6508
ELAD USA INC	3010-3012
Elecraft, Inc.	1707-1711
Embroidery by Joel	6111
ESRC1 Corp	1101-1102
Expert Linears America, LLC.	2603-2605
EZ Hang Inc.	1802
EZNEC Antenna Software	3811
Fast Track Ham Radio Books & Presentations	1908
First Class CW Operator`s Club	6409
FIRST Robotics	4004
Fists CW Club	6109-6110
Flagpoles by Uncommon USA Inc.	3204
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FM PALULUN	4111
Fox Hill Embroidery	6407
Gemmagic	6801-6803
Gifts 4 HAMS / Kelly Laser Works	1205-1206
GigaParts Live Demo	3607-3608
Gold Medal Ideas	3609-3611
Grace Technology	4209
Great Scott Gadgets	5008
Green Heron Engineering	3103,3203
Greene County Conv. & Visitors Bur.	6611
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Ham Radio 2.0 - Yasme Foundation	4301-4303
Ham Radio Classroom	CLASS02
Ham Radio Deluxe	5007
Ham Radio Outlet	2506-2507, 3307-3311
Ham Radio Workbench	3104
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Hamsource	3903-3906
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JJ Surplus	6707
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K4USD Network Club	6504
KB3IFH QSL Cards	6305
L.I.E. Gifts	6704
LATSYS GmbH	6403

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NSIRadio.com	4211-4212
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Nu-View 2	3804
NVIS/Codan Communications Consulting	6402
NW Digital Radio	1105
Ohlemacher`s Wisconsin Meat and Cheese Products	6112
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OM International Sideband Society	6509
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Orison Corporation	6212
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Suspender Man	6310-6312
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The Competition	6709
The R.F. Connection	5109-5110, 5209-5210
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The Wireman	3908-3911
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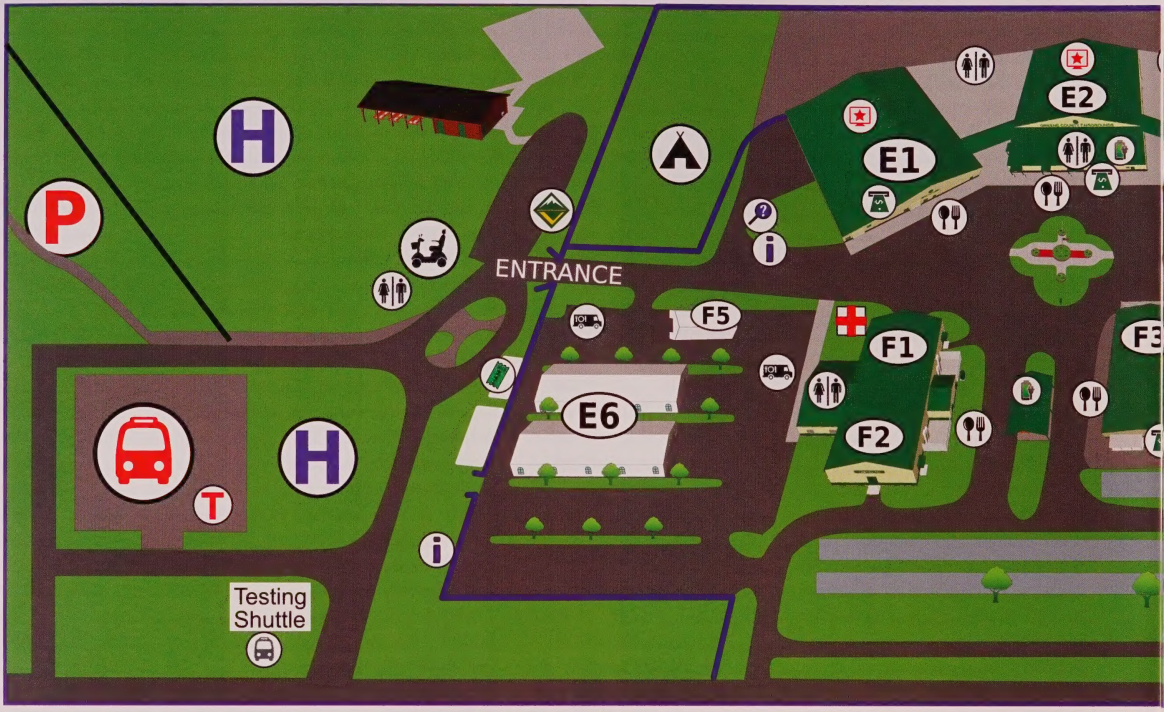
Tower Electronics	3501-3502, 3601-3602
Transel Corporation	3801-3802
TXRX SYSTEMS, INC.	5301-5302
Universal Radio, Inc.	2005-2006
US Postal Service / Dayton Stamp Club	6410-6412
US Tower Corp.	3110-3111
Venture Crew 73	4010
Vibroplex	1607-1609
W2IHY Technologies	5001-5002
W5KUB	2804-2805
W5YI Group-Gordon West Radio School	2306,2406
WA8JBT	6607
Webster Communications Inc	6807-6809
West Mountain Radio	3208-3210
Western Case Company	6202
Wild Sage Native American Jewelry	4310
Wired Communications	5309-5311
Wolf River Coils LLC	1002
Yaesu USA	3407-3411, 3507-3511
YLRL	2505
Youth DX Adventure	2602
Youth Tech - DARA	4001

Overview Map of Grounds


P
H
H
T
Testing Shuttle
ENTRANCE
E1
E2
E6
F1
F2
F3
F5

Gate 4
Guest Parking
Tour Bus

Gate 3
ADA Parking
Volunteer Parking

Gate 2
Package Pickup
Reserved Parking

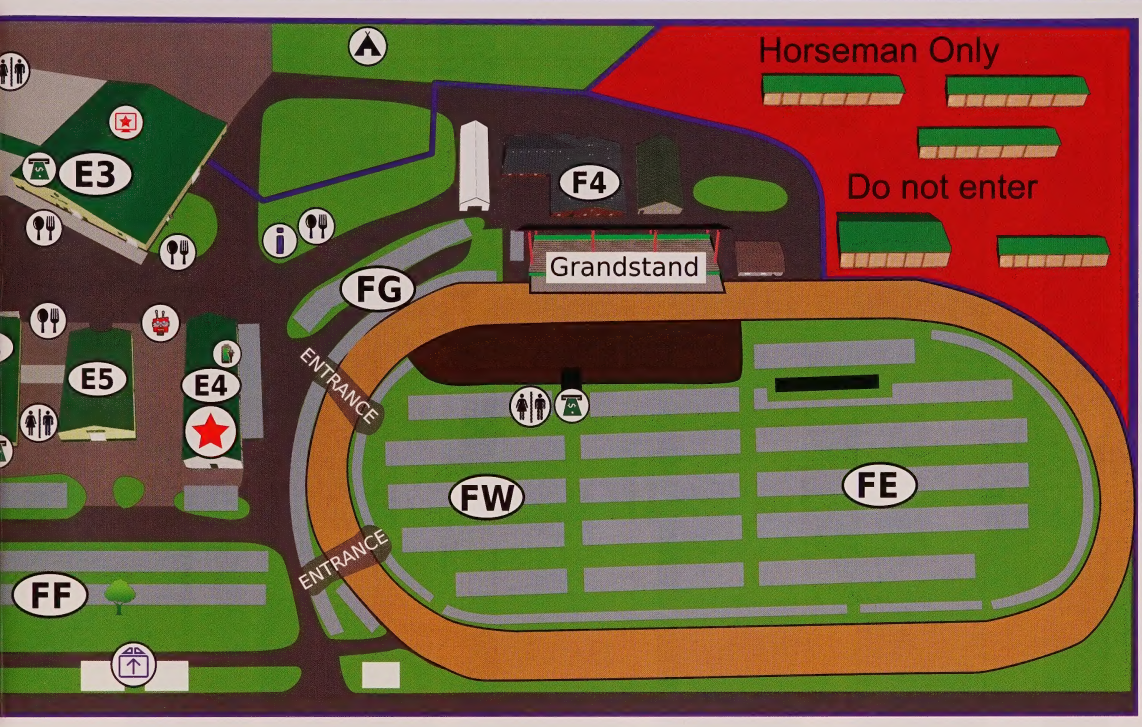
Parking

- Shuttle
- General
- Handicap
- Tour Bus
- Scootaround
- Testing Shuttle

General Info

- Prize Booth
- Prize Monitor
- Info Booth
- Lost & Found
- Restrooms
- First Aid
- Robot Arena
- Charging
- Tickets
- Food Vendor
- Camping
- ATM
- EmComm Vehicles
- Venture Crew 73
- Package Pickup

Overview Map of Grounds


Horseman Only
Do not enter
E3
F4
Grandstand
FG
E5
E4
ENTRANCE
FW
FE
ENTRANCE
FF

Gate 1
EXIT ONLY

Inside Exhibits

E1 Maxim - 1000's
E2 Tesla - 2000's
E3 Marconi - 3000's
E4 Volta - 4000's
E5 Hertz - 5000's
E6 Watt - 6000's

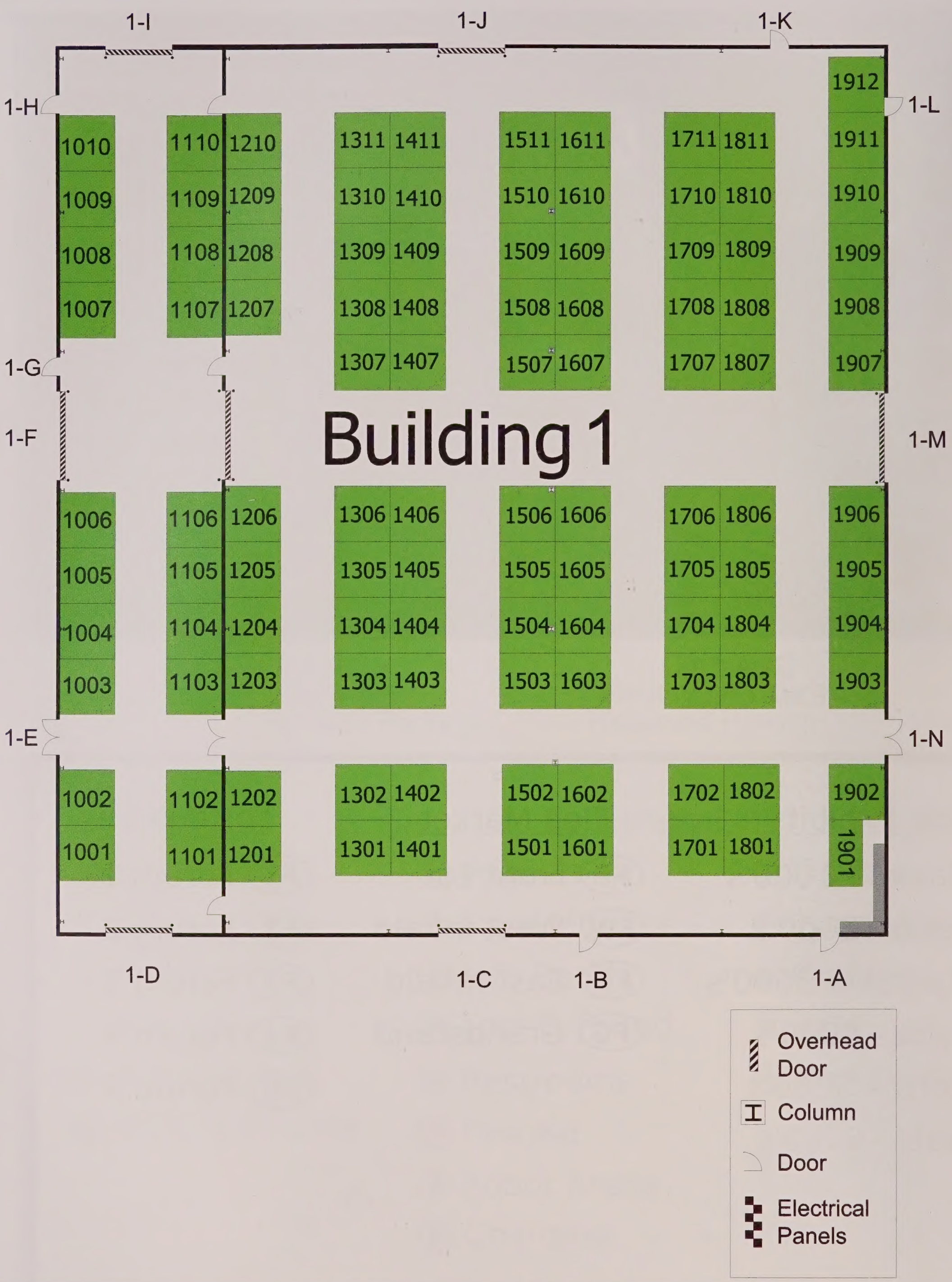
Flea Market

FF Front Lot
FW West Infield
FE East Infield
FG Grandstand

Forums

F1 Forum 1
F2 Forum 2
F3 Forum 3
F4 Forum 4
F5 Forum 5

Inside Exhibits Map


Building 1
1-I
1-J
1-K
1-H
1-L
1-G
1-F
1-M
1-E
1-N
1-D
1-C
1-B
1-A
1010 1009 1008 1007
1110 1109 1108 1107
1210 1209 1208 1207
1311 1310 1309 1308 1307
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1811 1810 1809 1808 1807
1912 1911 1910 1909 1908 1907
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1002 1001
1102 1101
1202 1201
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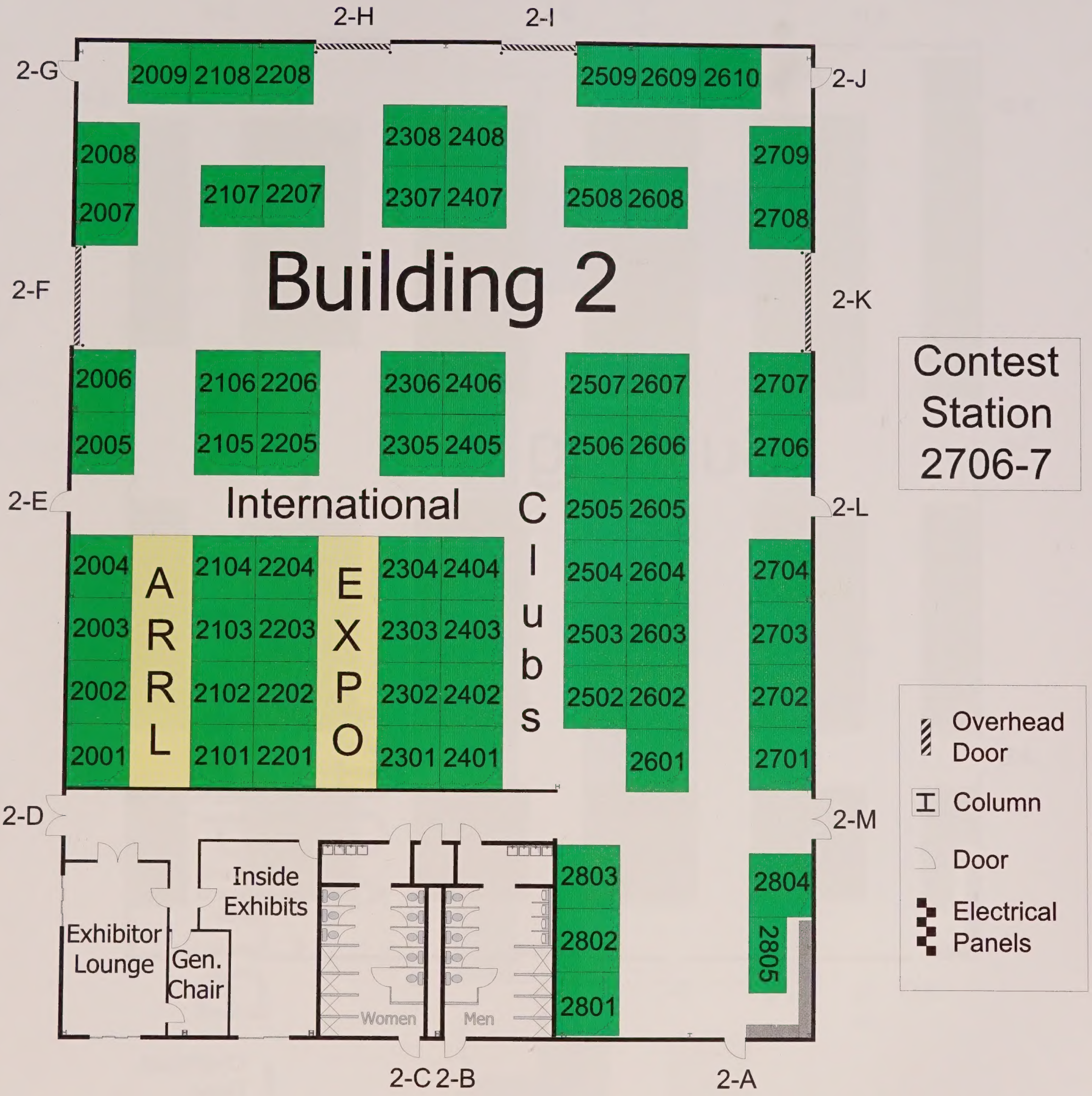
1802 1801
1902 1901
Overhead Door
Column
Door
Electrical Panels


2-H
2-I
2-G
2-J
2009
2108
2208
2509
2609
2610
2008
2007
2107
2207
2308
2408
2307
2407
2508
2608
2709
2708
Building 2
2-F
2-K
2006
2005
2106
2206
2105
2205
2306
2406
2305
2405
2507
2607
2506
2606
2707
2706
Contest Station 2706-7
2-E
International
Clubs
2505
2605
2-L
2004
2003
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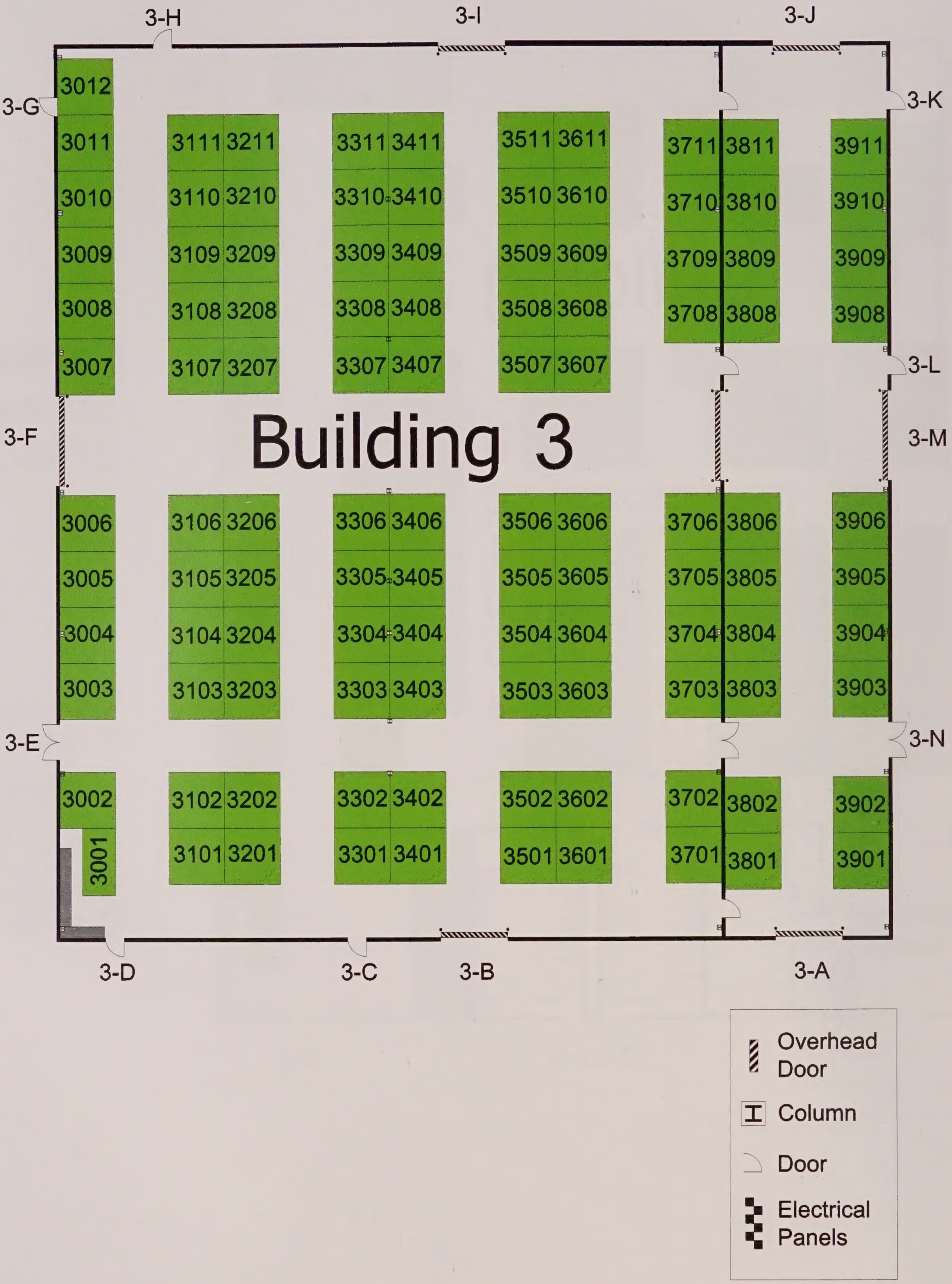
2001
ARRL
2104
2204
2103
2203
2102
2202
2101
2201
EXPO
2304
2404
2303
2403
2302
2402
2301
2401
2504
2604
2503
2603
2502
2602
2601
2704
2703
2702
2701
2-D
2-M
Exhibitor Lounge
Gen. Chair
Inside Exhibits
Women
Men
2803
2802
2801
2804
2805
2-C
2-B
2-A
Overhead Door
Column
Door
Electrical Panels

Inside Exhibits Map


Building 3
3-A
3-B
3-C
3-D
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3-I
3-J
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3-L
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3-N
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3102 3202
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3708 3808
3706 3806
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3704 3804
3703 3803
3702 3802
3701 3801
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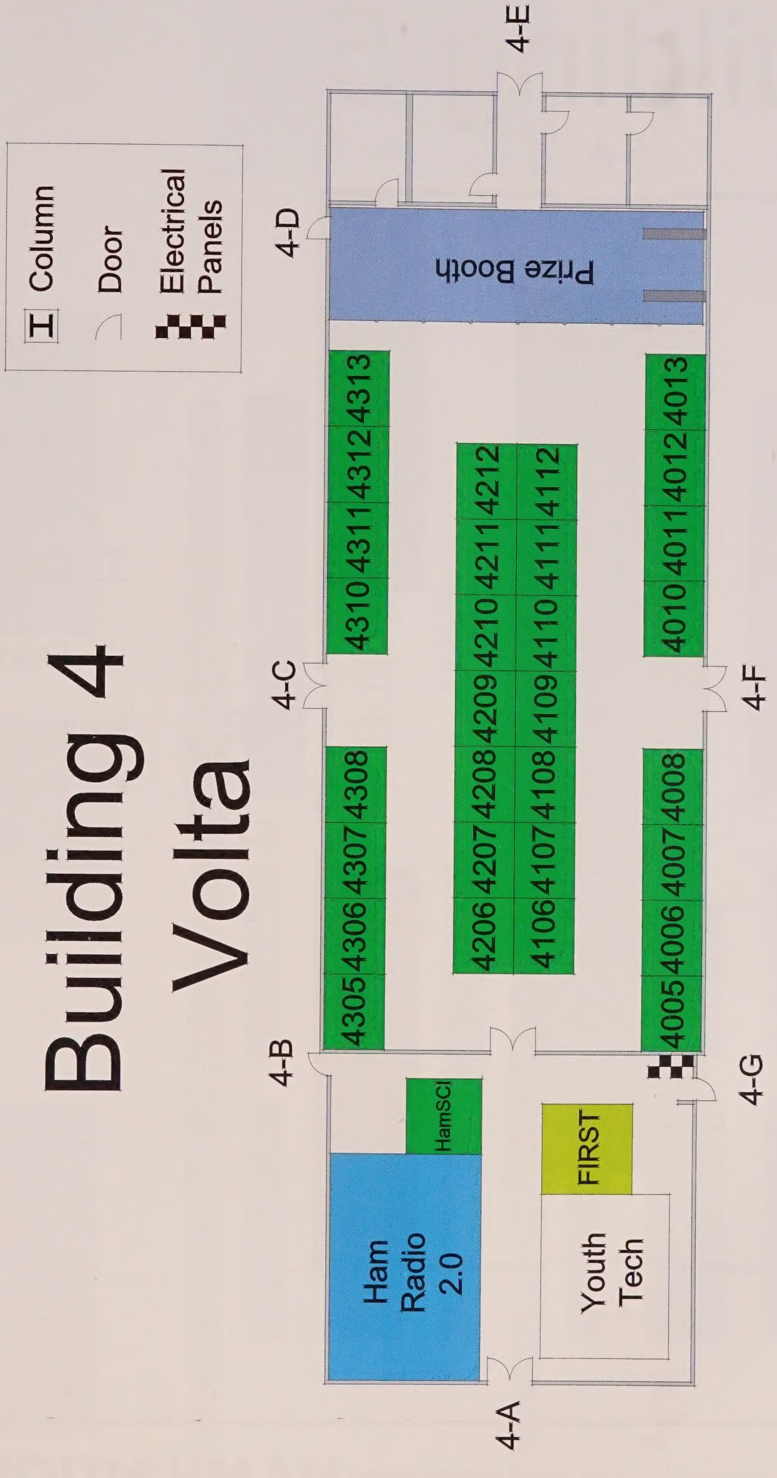
3902
3901
Overhead Door
Column
Door
Electrical Panels


Building 4
Volta
Column
Door
Electrical Panels
4-A
4-B
4-C
4-D
4-E
4-F
4-G
Ham Radio 2.0
HamSCI
FIRST
Youth Tech
Prize Booth
4305
4306
4307
4308
4310
4311
4312
4313
4206
4207
4208
4209
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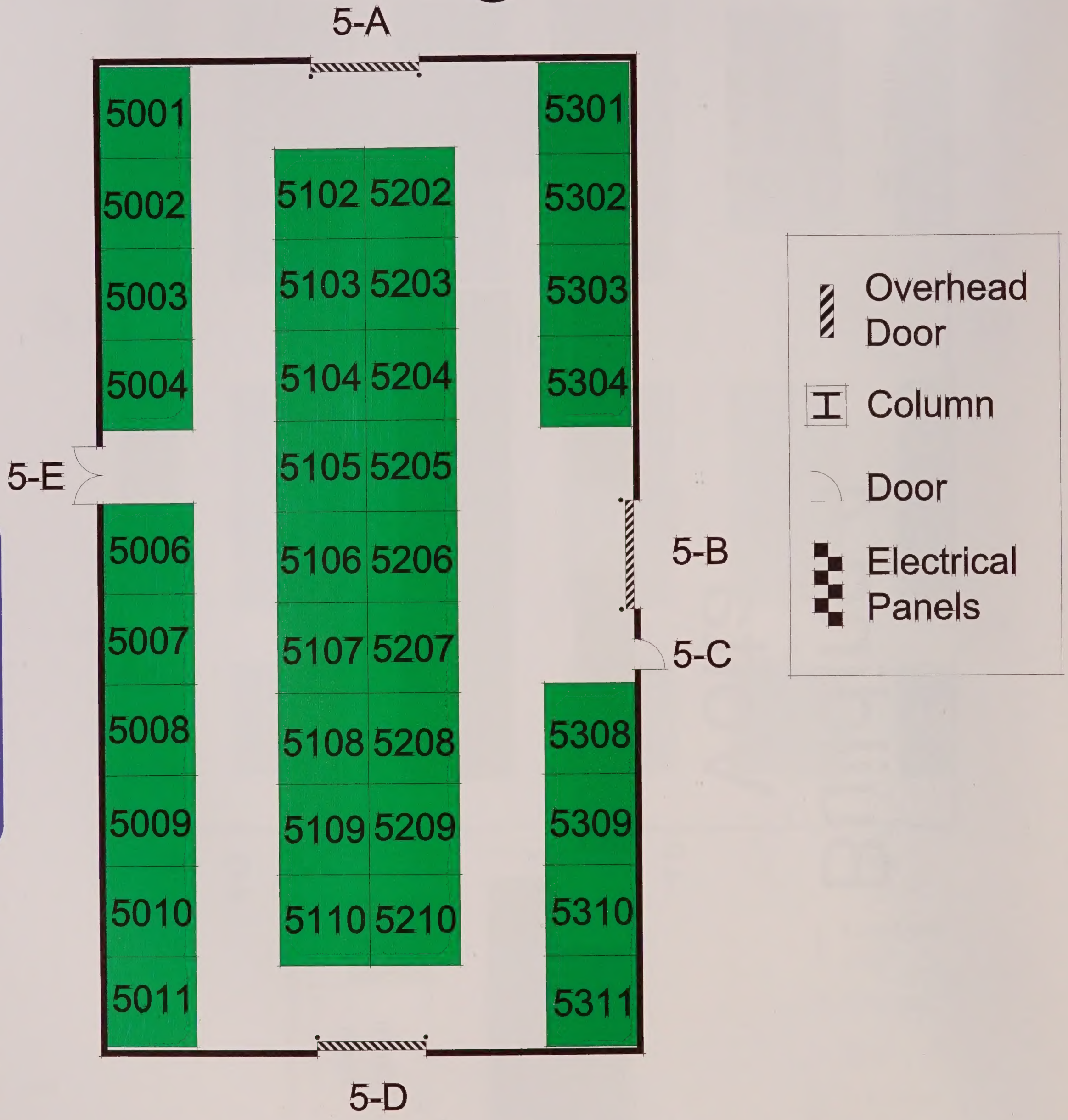
4012
4013

Building 5


5-A
5001
5002
5003
5004
5-E
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5007
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5103 5203
5104 5204
5105 5205
5106 5206
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5108 5208
5109 5209
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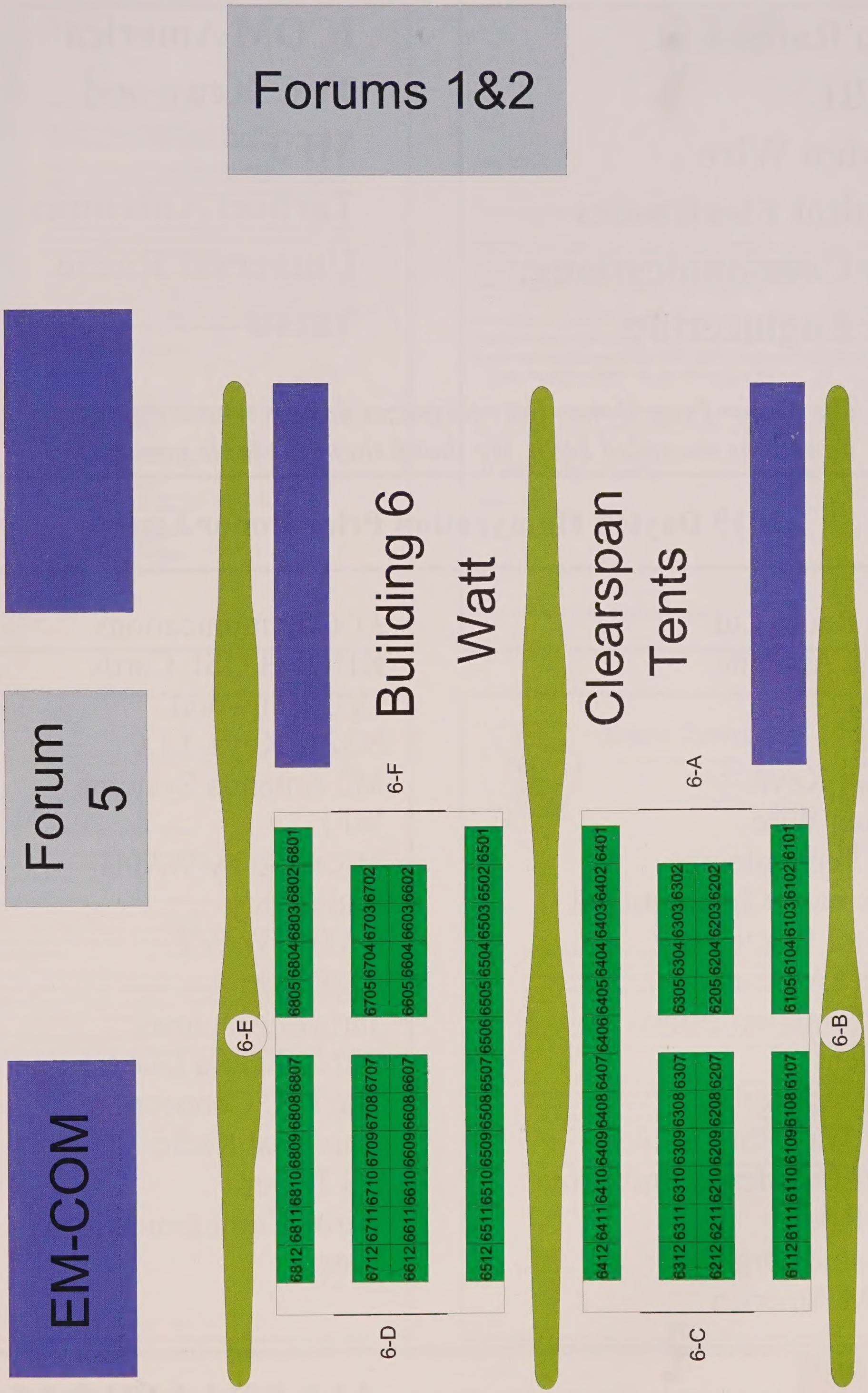
5-C
5308
5309
5310
5311
5-D
Overhead Door
Column
Door
Electrical Panels


Forums 1&2
Forum 5
EM-COM
Building 6 Watt
Clearspan Tents
6-A
6-B
6-C
6-D
6-E
6-F
6801 6802 6803 6804 6805
6807 6808 6809 6810 6811 6812
6702 6703 6704 6705
6707 6708 6709 6710 6711 6712
6602 6603 6604 6605
6607 6608 6609 6610 6611 6612
6501 6502 6503 6504 6505 6506 6507 6508 6509 6510 6511 6512
6401 6402 6403 6404 6405 6406 6407 6408 6409 6410 6411 6412
6302 6303 6304 6305
6307 6308 6309 6310 6311 6312
6202 6203 6204 6205
6207 6208 6209 6210 6211 6212
6101 6102 6103 6104 6105
6107 6108 6109 6110 6111 6112

Major Prize Donor List for 2019

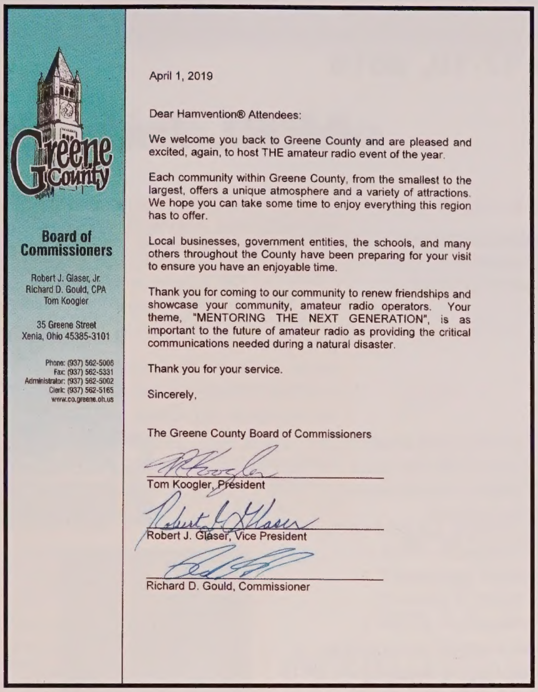
Alfa Radio Ltd.
ARRL
Belden Wire
Capitol Electronics
CQ Communications
DX Engineering
ICOM America
JVC Kenwood
MFJ
Tarheel Antennas
Universal Radio
Yaesu

The Major Prize Donor list recognizes donors whose aggregate donations exceeded $600. We thank them for their generosity!

2019 Dayton Hamvention Prize Donor List

Alfa Radio Ltd
Alpha Antenna
ARRL
ARISS
Begali Keys
Belden Wire
Bird Technologies
Buckmaster International
Capitol Electronics
Comet Antenna
CQ Communications
Digilent
DX Engineering
Easy Way Ham Books
EZNEC Antenna Software
Fair-Rite
Hamstudy.org
ICOM America
JT Communications
KB3IFH QSL Cards
JVC Kenwood
N3ZN Keys, LLC
M2 Antenna Systems
MFJ
Microlog by WA0H
Radioddity
RADIOWAVZ
RigExpert
Tarheel Antennas
TEN TEC - a Dishtronix Company
The R.F. Connection
Universal Radio
US Tower
Wired Communications
Yaesu

Welcome



Greene County

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Richard D. Gould, CPA
Tom Koogler

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Fax: (937) 562-5331
Administrator: (937) 562-5002
Clerk: (937) 562-5165
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April 1, 2019

Dear Hamvention® Attendees:

We welcome you back to Greene County and are pleased and excited, again, to host THE amateur radio event of the year.

Each community within Greene County, from the smallest to the largest, offers a unique atmosphere and a variety of attractions. We hope you can take some time to enjoy everything this region has to offer.

Local businesses, government entities, the schools, and many others throughout the County have been preparing for your visit to ensure you have an enjoyable time.

Thank you for coming to our community to renew friendships and showcase your community, amateur radio operators. Your theme, "MENTORING THE NEXT GENERATION", is as important to the future of amateur radio as providing the critical communications needed during a natural disaster.

Thank you for your service.

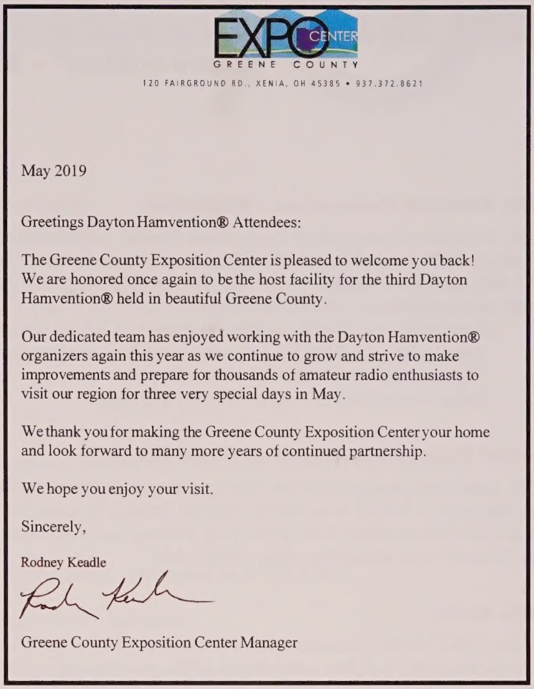
Sincerely,

The Greene County Board of Commissioners

Tom Koogler, President

Robert J. Glaser, Vice President

Richard D. Gould, Commissioner



EXPO CENTER
GREENE COUNTY
120 FAIRGROUND RD., XENIA, OH 45385 • 937.372.8621

May 2019

Greetings Dayton Hamvention® Attendees:

The Greene County Exposition Center is pleased to welcome you back! We are honored once again to be the host facility for the third Dayton Hamvention® held in beautiful Greene County.

Our dedicated team has enjoyed working with the Dayton Hamvention® organizers again this year as we continue to grow and strive to make improvements and prepare for thousands of amateur radio enthusiasts to visit our region for three very special days in May.

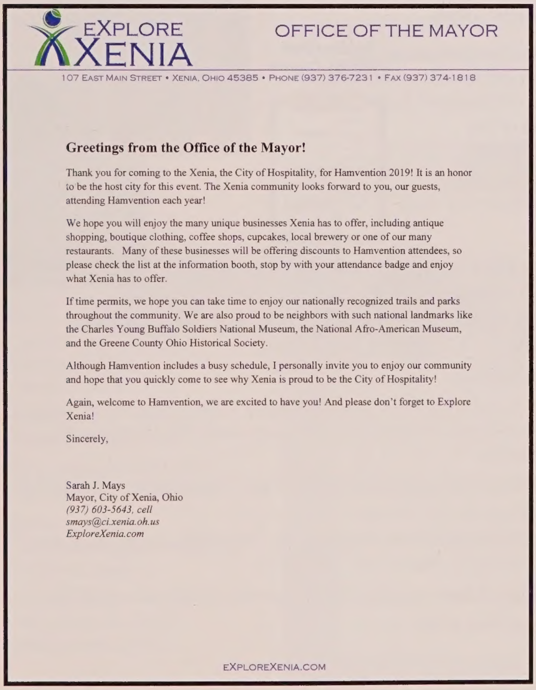
We thank you for making the Greene County Exposition Center your home and look forward to many more years of continued partnership.

We hope you enjoy your visit.

Sincerely,

Rodney Keadle

Greene County Exposition Center Manager



EXPLORE XENIA
OFFICE OF THE MAYOR
107 EAST MAIN STREET • XENIA, OHIO 45385 • PHONE (937) 376-7231 • FAX (937) 374-1818

Greetings from the Office of the Mayor!

Thank you for coming to the Xenia, the City of Hospitality, for Hamvention 2019! It is an honor to be the host city for this event. The Xenia community looks forward to you, our guests, attending Hamvention each year!

We hope you will enjoy the many unique businesses Xenia has to offer, including antique shopping, boutique clothing, coffee shops, cupcakes, local brewery or one of our many restaurants. Many of these businesses will be offering discounts to Hamvention attendees, so please check the list at the information booth, stop by with your attendance badge and enjoy what Xenia has to offer.

If time permits, we hope you can take time to enjoy our nationally recognized trails and parks throughout the community. We are also proud to be neighbors with such national landmarks like the Charles Young Buffalo Soldiers National Museum, the National Afro-American Museum, and the Greene County Ohio Historical Society.

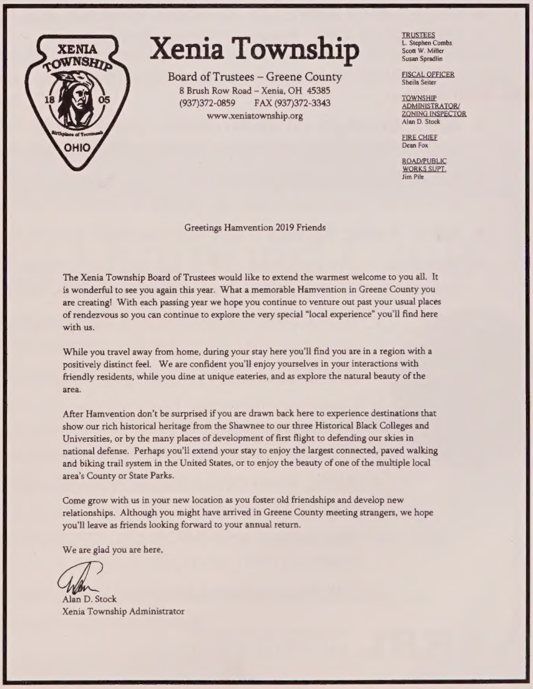
Although Hamvention includes a busy schedule, I personally invite you to enjoy our community and hope that you quickly come to see why Xenia is proud to be the City of Hospitality!

Again, welcome to Hamvention, we are excited to have you! And please don't forget to Explore Xenia!

Sincerely,

Sarah J. Mays
Mayor, City of Xenia, Ohio
(937) 603-5643, cell
smays@ci.xenia.oh.us
ExploreXenia.com

EXPLOREXENIA.COM



XENIA TOWNSHIP 18 05 Birthplace of Tecumseh OHIO

Xenia Township
Board of Trustees – Greene County
8 Brush Row Road – Xenia, OH 45385
(937)372-0859 FAX (937)372-3343
www.xeniatownship.org

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TOWNSHIP ADMINISTRATOR/ ZONING INSPECTOR
Alan D. Stock

FIRE CHIEF
Dean Fox

ROAD/PUBLIC WORKS SUPT.
Jim Pile

Greetings Hamvention 2019 Friends

The Xenia Township Board of Trustees would like to extend the warmest welcome to you all. It is wonderful to see you again this year. What a memorable Hamvention in Greene County you are creating! With each passing year we hope you continue to venture out past your usual places of rendezvous so you can continue to explore the very special "local experience" you'll find here with us.

While you travel away from home, during your stay here you'll find you are in a region with a positively distinct feel. We are confident you'll enjoy yourselves in your interactions with friendly residents, while you dine at unique eateries, and as explore the natural beauty of the area.

After Hamvention don't be surprised if you are drawn back here to experience destinations that show our rich historical heritage from the Shawnee to our three Historical Black Colleges and Universities, or by the many places of development of first flight to defending our skies in national defense. Perhaps you'll extend your stay to enjoy the largest connected, paved walking and biking trail system in the United States, or to enjoy the beauty of one of the multiple local area's County or State Parks.

Come grow with us in your new location as you foster old friendships and develop new relationships. Although you might have arrived in Greene County meeting strangers, we hope you'll leave as friends looking forward to your annual return.

We are glad you are here,

Alan D. Stock
Xenia Township Administrator

Mentoring the Next Generation
ARRL
National
Convention
2019
Xenia, Ohio

ARRL National Convention

Hamvention® – May 17-19, 2019

ARRL Exhibit &

ARRL National Convention – Welcome!

ARRL, the national association for Amateur Radio®, welcomes all members and friends to Hamvention®, host of the 2019 ARRL National Convention. Use this handy guide to find ARRL-sponsored activities, exhibits and program representatives. ARRL's large exhibit area is located in "Tesla" Building 2.

Rick Roderick, K5UR – ARRL President
Dale Williams, WA8EFK – Great Lakes Division Director
Thomas Delaney, W8WTD – Vice Director
Scott Yonally, N8SY – Ohio Section Manager

Download ARRL's new Hamvention Event App!

Find booths, exhibits, forums, maps, hourly prize drawings, and more. Available for Apple and Android mobile devices. Download on the Apple App Store and Google Play. It's never been easier to navigate Hamvention!

Download on the App Store
ANDROID APP ON Google play

Special Guests: Nashua Area Radio Society

ARRL welcomes members of the Nashua Area Radio Society (NARS), from New Hampshire. NARS is an ARRL Special Service Club and is being recognized as the 2019 Hamvention Club of the Year. Please visit their booth in the ARRL exhibit area to learn more about this vibrant radio club!

ARRL Store

Visit the HUGE ARRL bookstore to join, renew or extend your ARRL membership, and get the latest publications, supplies, and official ARRL merchandise. **ARRL Field Day is June 22-23, 2019.** Gear up for ham radio's largest annual on-air event with official shirts, pins, hats, and more!

- FREE Gift when you join, renew, or extend your ARRL membership at the show.
- FREE Gift for **ARRL Life Members** when you stop by the ARRL Store.
- FREE 2019 ARRL National Convention Button!

Radio Club Health Check

Active
Involved
Engaged

ARRL Exhibits...

- **ARRL Spotlight on Radio Clubs** – presented by members of the Nashua Area Radio Society. Take the **Radio Club Health Check!**
- **ARRL Development and ARRL Foundation** – raising resources to extend the reach of ARRL programs & services beyond membership dues.
- **ARRL Public Service** – and featuring ARRL Ham Aid.
- **Meet the Authors**. Meet ARRL authors and editors who are inspiring today's radio experimenters, operators and innovators. (see schedule in the ARRL exhibit area)
- **ARRL Collegiate Amateur Radio Initiative**. We Want U to help advance ham radio among college and university students: **www.arrl.org/WeWantU**
- **ARRL Laboratory: Get Your Handheld Radio Tested!**
- **Learning Wireless Technology**. Meet ARRL Education & Technology Program Instructors and explore the resources available for introducing radio science and wireless technology to *everyone!* Find ways to **make, discover, experiment, explore, and build**.
- **ARRL Field Organization Volunteers** – Visit this gathering area for ARRL Field Organization networking, hosted by the ARRL Ohio Section.
- **Radiosport and DXCC**. DXCC Card Checking, ARRL Contests and Awards, The ARRL Logbook of the World (LoTW), and QSL Bureau.
- **The International Amateur Radio Union (IARU)** – Meet representatives from the IARU. (Booth 2105)

ARRL The national association for AMATEUR RADIO®

Activities Guide

ARRL Wouff Hong Ceremony – Saturday Night at the Marriott

Saturday May 18 – Doors open at 9:00 PM (no admittance after 9:30 PM)
Marriott at the University of Dayton, 1414 South Patterson Blvd
Participate in this lively ARRL tradition. The ceremony is steeped in mystery! Attendees receive a special keepsake. A fun activity for all ages. Registrations were taken online, but a limited number of remaining seats may be available from the ARRL Field Organization Volunteers booth during the convention (ARRL exhibit area in Building 2). Sponsored by the ARRL Ohio Section.

ARRL-sponsored Forums (see forum schedule)

Friday May 17, 2019

- **The ARRL Lab: Trials, Tribulations and (Tall?) Tales**
- **ARRL Spotlight on Radio Clubs and Mentoring**: presented by members of the Nashua Area Radio Society.
- **ARRL Public Service Communications:** panel discussion and ARES® update.

Saturday May 18, 2019

- **ARRL Member Forum**
- **Engaging Today's Radio Amateur**: presented by ARRL CEO Howard E. Michel, WB2ITX.
- **ARRL Collegiate Amateur Radio Initiative**

Sunday May 19, 2019

- **ARRL's new Volunteer Monitor Program and the FCC**
- **Discovering Radio Communications**

THANK YOU!

ARRL expresses its gratitude to the 2019 Hamvention® Committee, Dayton Amateur Radio Association, and all of the volunteers who contributed to the success of 2019 ARRL National Convention at Hamvention in Xenia, Ohio.

Meet these ARRL Headquarters Staff

Bob Allison, WB1GCM
Kris Bickell, K1BIC
Margie Bourgoin, KB1DCO
Ken Bailey, K1FUG
Eric Casey, KC2ERC
Lauren Clarke, KB1YDD
Paul Cianciolo, W1VLF
Jackie Ferreira, KB1PWB
Ally Flynn, KM3ALF
Norm Fusaro, W3IZ
Regina Galuppi, W3DGI
Ed Hare, W1RFI
Bob Inderbitzen, NQ1R
Dave Isgur, N1RSN
Bart Jahnke, W9JJ
Alli McLellan
Kim McNeill, KM1IPA
Howard Michel, WB2ITX
Michelle Patnode, W3MVP
Carla Pereira, KC1HSX
Diane Petrilli, KB1RNF
Janet Rocco, W1JLR
Michael Scharr
Yvette Vinci, KC1AIM

Collegiate Amateur Radio Initiative

Andy Milluzzi, KK4LWR
Tony Milluzzi, KD8RTT

Education & Technology Program Instructors

Tommy Gober, N5DUX
Larry Kendall, K6NDL
Matt Severin, N8MS

The ARRL **Diamond Club**

Enjoy All the Benefits of Membership... **Plus More!**

The ARRL Diamond Club is an annual giving program for ARRL's most committed members. In addition to membership, including *QST*, Diamond Club members receive many other special benefits.

Most importantly, when you join the Diamond Club, you are also making an unrestricted gift to ARRL to help support ARRL's programs and services for Amateur Radio.

To learn more about the benefits of being a member of this special group, go to **www.arrl.org/the-arrl-diamond-club**.

Friday, May 17th

9:15-10:35 **Room 1**

TAPR Forum
Moderator: Scotty Cowling, WA2DFI
Scotty has been involved in the openHPSDR project for the last 12 years, is a TAPR Director and current TAPR Vice President. Scotty is also active in the production of other SDR components. He is a co-founder of iQuadLabs, LLC, a supplier of openHPSDR systems and other Software Defined Radio components. He currently works at Zephyr Engineering, Inc, a computer consulting company that specializes in FPGA design and SDR hardware.

9:15-10:15 **Room 2**

Remote Access to your Amateur Radio Station
Moderator: Mark Aaker K6UFO
Bio: Mark is Contributing Editor on Remote Contesting to National Contest Journal magazine. He has operated a remote station for the last 10 years, and been presenting at Hamvention since 2016.
Creating and Maintaining a Remote Station in Snowy Eastern Ontario.
Remote access makes your station more useful and enjoyable for you and any hams you mentor. Let's avoid the common problems, with an overview of remote access methods being successfully used today. We'll cover in more detail a remote station in Eastern Ontario that operates without a visit during the winter. And yes, we'll save time to answer your questions.

9:15-10:30 **Room 3**

The ARRL Lab: Trials, Tribulations, and Tall Tales
Presenter: Ed Hare, W1RFI, ARRL Laboratory Manager
ARRL LaboratoryManager, Ed Hare, W1RFI, has promised to give us the real "inside" information about what goes on in the ARRL Laboratory. His presentation is chock full of information about the day-to-day things that happen in the Lab when nobody is lookin

9:15-10:15 **Room 4**

SHARES HF EMCOMM
Moderator Ross Merlin WA2WDT
Ross was first licensed in 1974 and now holds the Amateur Extra Class license and the General Radiotelephone Operator License. He enjoys contesting, Dxing, Automatic Link Establishment, and digital modes when not on the air on government HF channels at work managing a federal government HF emergency communications program.
Speaker 1: Ross Merlin, WA2WDT
SHARES HF Emergency Communications
SHARES is the SHAred RESources HF radio program managed by the Dept. of Homeland Security to provide backup long-range communications, interoperability, and situational awareness for all levels of government, critical infrastructure and key resources providers, and national or regional disaster relief organizations; all on federal radio channels. Many SHARES radio operators are also amateur radio operators, and the application of the skills and knowledge learned in amateur radio to government emergency communications is invaluable. This presentation will include a description of the program mission and eligibility, and an open forum for SHARES members to discuss operations, policies, and the evolution of the program.

9:15-10:30 **Room 5**

Parks On The Air
Moderators: W8TAM Thomas Martin & K8VOX Julie Martin
Modrator: Julie Martin, K8VOX
Bio: Licensed in 2016, I enjoy all aspects of operating portable from unique places.
Speaker: Thomas Martin, W8TAM
Open to Q & A Licensed in 2014.

10:45-11:50 **Room 1**

APRS Forum
Moderator: Bob Bruninga, WB4APR

Many new things for APRS this year will be presented by a variety of authors. Bob Bruninga, WB4APR will cover all the new operating modes Including DTMF, text-to-Voice, PSK31 and an SSTV camera that will be in the PSAT2 satellite scheduled for launch just two weeks after Dayton. Brian Hoyer, K7UDR has fresh updates from Northwest Digital Radio. Rob Riggs, WX9O will introduce his Bluetooth TNC called MobileLinkd TNC3 for smartphones to give everyone a full-fledged GPS-enabled APRS system with amazing two-way communication capabilities. This makes APRS messaging much more intuitive. And much more convenient than bringing a laptop computer into the field. Announcements on other projects are welcome!

10:25-11:25 **Room 2**

MARS Forum Hamvention 2019
Moderator 1: Paul English, WD8DBY

Bio: Paul holds the Amateur Extra and has been licensed since 1976. He has served as the Army MARS Program Manager since 2013. Paul enjoys tinkering with electronics and hoping he can get all the parts back together after taking things apart.

Richard Duncan, WD5B
MARSRADIO and the Military Support Network in 2019

The Department of Defense uses HF phone patching everday…Richard will present an update on the MARS Radio phone patch network and how you can support this effort. Richard will also talk about changes to the Military Support Network.

Dave Stapchuk, KD9XM

Dave has been licensed as an amateur radio operator since 2015 and has served as the Chief of Air Force MARS since 2014. In addition to his amateur radio hobby, Dave is an avid golfer. Don't be surprised if you see Dave walking around Hamvention with his golf clubs in tow!

Mark Jensen, WA6MVT
NORTHCOM Comms Interoperability Exercise Comes to Ohio

Mark and a representative from the Ohio Army National Guard will discuss the upcoming DOD, Federal, public safety and amateur radio communications interoperablity exercise that will take place in Ohio later in June. Mark will explain how amateur radio operators can become involved in this training opportunity.

Matt Deutch, N0RGT
WWV 100th Anniversary

Matt will give a presentation about the LF/HF broadcast station WWV/H/B and the upcoming 100th anniversary of the WWV time standard broadcast.

10:40-11:40 **Room 3**

Digital Contesting
Ed Muns, W0YK

Ed is the director of the CQ WW RTTY and CQ WPX RTTY contests, manager of the

NCJ NA RTTY Sprint, NCJ Digital Contesting columnist and co-sponsor of the Ten-Meter RTTY and FT8 Roundup contests. He has taught the Digital Contesting classes at the Dayton Contest University since 2007. Much of his CW and digital contesting is done with his P49X call sign in Aruba.

John Pescatore, K3TN

Future of FT8 in Digital Contesting

Since its introduction in mid-2017, the FT8 mode has instantly dominated HF ham band activity, Since its introduction in mid-2017, the FT8 mode has instantly dominated HF ham band activity, as measured by LotW and ClubLog QSOs across the CW, SSB, RTTY and FT8 modes. In December 2018, the first FT8 contest was very successful: the FT8 Roundup. That was followed by the traditional ARRL RTTY Roundup in early January 2019 where an all-time high number of logs were submitted, due to the inclusion of the FT8 mode.

Jeff Blaine, AC0C

Future of RTTY Contesting

The recent popularity of FT8 and its appearance in the first two contests has some people wondering what the impact may be on the future of RTTY contesting. Will FT8 supplant RTTY or will it be an additional popular contesting mode along with CW, SSB and RTTY?

10:30-11:30 **Room 4** **Instructor's Forum**

Moderated by Carole Perry WB2MGP

Carole is the 1987 Ham of the Year and has been inducted into the CQ Hall of Fame. She is the first recipient of the Carole Perry Educator of the Year award. She has moderated the Instructors' Forum and the Youth Forum for 32 years.

Tamitha Skov

The Use of Space Weather information in the classroom

Tamitha is the Space Weather Woman. She helps the "Mars Generation" understand the effects of space weather in our daily lives.

Tim Cunningham

Having Fun with Satellite Communications in the classroom

Tim is the "Satellite Man". He is a member of the Huntsville ARC and serves as Alabama APRS Coordinator and is AMSAT Area Chairman. He regularly organizes school contacts with the ISS.

10:45-11:45 **Room 5** **Collins Radio**

Moderator: David Knepper, W3ST

Bio: First licensed in 1955, Dave is now active in the restoration and repair of Colllins amateur radio equipment. He is the secretary and founder of the Collins Radio Association: www.collinsradio.us

David Knepper: Recapturing a legacy to promote and to sustain amateur radio for generations to come

12:00-1:50 **Room 1** **Homeland Security Forum**

Moderator: John Peterson

Auxiliary Communications (AUXCOMM) Train-the-Trainer (TtT) is a new offering in the Fiscal Year (FY) 2019 Technical Assistance (TA)/Statewide Communication Interoperability Plan (SCIP) Guide.

Speakers will talk about a service offering help to states/territories in creating a self-sustaining AUXCOMM training program by providing instructor training to qualified COML personnel who have also successfully completed these courses: AUXCOMM Course, COML Course, COML Position Task Book (PTB), Formal Adult Education in Training Instruction, Has taken the most current version: ICS 100C, 200B, 300, 400, 770B, and 800C, and has a FCC Radio Amateur License that has been held for at least three years.

11:35-1:00 **Room 2** **D-Star**

Moderator Robin Cutshaw, AA4RC

New devices. New software. Join Robin Cutshaw (AA4RC) and more for updates on D-STAR.

11:50-1:05 **Room 3** **ARRL Spotlight on Radio Clubs and Mentoring**

Presented by members of the Nashua Area Radio Society: Fred Kemmerer, AB1OC; Anita Kemmerer, AB1QB; Jamey Finchum, AC1DC; Dave Merchant, K1DLM

ARRL is pleased to introduce members of the Nashua Area Radio Society (NARS), from New Hampshire. This ARRL Special Service Club has over 200 members contributing to Amateur Radio licensing classes, youth and school activities, on the air operating activities, Amateur Radio expositions in public venues, and emergency communications training. NARS is a vibrant, active radio club focusing on mentoring and youth outreach. Club members will share a presentation about their activities and approach to building membership and participation in their club. If your radio club is hungry for new ideas, looking for ways to engage newcomers - you won't want to miss this opportunity to hear from a vibrant, active radio club. Sponsored by ARRL, the national association for Amateur Radio.

11:45-12:45 **Room 4** **Kit Building**

Moderator/Keynote Speaker: Joe Eisenberg, K0NEB

Joe is the Kit Building editor for CQ Magazine and the chapter author for the Construction Techniques chapter of the ARRL Handbook.

David M Crip, NM0S

New Kits from 4-State QRP Group

David is an Engineer for Rockwell Collins in Cedar Rapids, Iowa, and designs many 4-State QRP kits.

12:00-1:30 **Room 5** **BalloonSat Forum**

Moderators: Bill Brown WB8ELK

Bill was first licensed in 1969 and has been actively promoting the use of Amateur Radio flown aboard high altitude balloons. He has flown over 500 Amateur Radio High Altitude Balloons (ARHAB) since his first launch in 1987.

Bill Brown, WB8ELK

Long Duration balloon flights around the World

How to design and launch Pico balloon payloads capable of circling the World

Mike Hojnowski, KD2EAT

Lofty Goals - An Ambitious HAB Flight

Details of preparations for a high altitude balloon flight that includes a live camera

Amateur Television (ATV) downlink, A crossband VHF to UHF repeater with coverage spanning hundreds of miles and a touch-tone cutdown system.

Shane Wilson, N4XWC

How to successfully track and recover balloon payloads. Setting up a chase vehicle and the equipment necessary for tree and rugged terrain rescue.

A Pico balloon race will be held shortly after the BalloonSat Forum (Rain Date will be on Saturday around Noon)

1:10-2:30 **Room 2**

National Weather Service Forum

Working With Amateur Radio ... To Save Lives During Severe Weather

Brandon Peloquin, Warning Coordination

Meterologist, National Weather Service, Wilmington, Ohio

NOAA's Weather–Ready Nation initiative is about building community resilience in the face of increasing vulnerability to extreme weather and water events. To achieve this, the National Weather Service (NWS) strives to develop and strengthen partnerships with those who contribute to this initiative. This presentation will describe the partnership between Amateur Radio operators and the NWS and how they work together to help communities be better prepared for severe weather.

1:15-2:15 **Room 3**

Out of this World Ham Radio via Amateur Radio on the ISS

Rosalie White, ARRL ARISS-US; Frank Bauer, AMSAT ARISS-US, K1STO-KA3HDO

Rosalie and Frank were the two US leaders of ARISS since Day 1, when NASA asked them in 1996 to begin plans to build a world team for Amateur Radio to be on the International Space Station. The rest is history!

The ARISS team will present an overview and status of the ARISS program and then conduct a panel/Q&A session with ARISS panel experts in operations, education, hardware, experimentation and exploration. We also hope to have some surprise guests attending!

1:00-2:15 **Room 4**

Techniques Of The Best Operators

Mitch Stern W1SJ

This year, Mitch celebrates his 50th year in ham radio and is still super active! His first love is contesting, and he is often that rare multiplier you work from Vermont. His second love is teaching, and he teaches several classes for Technicians and Generals.

Mitch Stern

Techniques of the Best Operators

Now that you've bought up all that great stuff at Hamvention, now what do you do with it? Why is working new stations such a struggle? Why does everyone else work the juicy DX but I can't? Why is it every time I get into a QSO, it ends up getting swallowed by others.

1:45-2:45 **Room 5**

Using KiCad

Barry Buelow, W0IY

Barry was first licensed in 1967 and has been actively building every since. He is a disciple of KiCad advocating for the Open Source software by teaching classes and generally being a resource to help others design their own circuits and PCBs.

KiCad provides Schematic Capture, BOM, Netlist, PCB Layout and Gerber file creation. It also supports Pick-n-Place files and other design tools like Spice.

Beginners and advanced users will get a quick tour of KiCad and see the latest addition, the Visualization feature that shows you what a complete PCB will look like with components installed.

2:00-5:00 **Room 1**

Antenna Forum
Moderator: Tim Duffy K3LR
Dr. Ted Rappaport N9NB and Jim Parnell W5JAW
How to Use Your Tower as a Dual-Band Single-Feed 80 meter/160 meter Vertical Antenna Using No Traps, Switches, or Tuners – And Extensions to Phased Arrays
Frank Donovan
Big and Small High Performance 6 Meter Yagis You Can Build
Dr. Tamitha Skov
Forecasting the Next Solar Cycle for Radio Propagation; Separating Fact from Myth
Chris Janssen
A Four Element Vertical Dipole Array – Super Antennas On the Beach for Dxpedtioners

2:40-3:45 **Room 2**

Ham Radio and the Law
Fred Hopengarten, Esq., K1VR
The author of “Antenna Zoning for the Radio Amateur,” with the Third Edition due out later this year, Fred is active in contests and DX. This past fall, he was elected as the new ARRL Director for New England.
Bob Famiglio, Esq., K3RF
Excluding a Ham from Your Repeater and Network
Bob will address issues arising when repeater or network owners exclude licensed amateurs for whatever reason. With the continued expansion of linked repeater networks, some have resorted to litigation when excluded. Bob will present a summary of a recent case and the law regarding such restrictions with his recommendations.
Barney Scholl, Esq., K3LA
Subject: Should your club be tax exempt?
Can/should an amateur radio club qualify as a charitable organization? Steps under the federal and state rules. Suggestions.
Fred Hopengarten, Esq., K1VR
Antenna Law News
N2EHG v. Town of LaGrange (NY) - excessive fees. The FAA Reauthorization Act of 2018. Tip: The TCA of 1996 is NOT the Communications Act of 1934.

2:25-3:40 **Room 3**

ARRL Public Service Communications: Panel Discussion
A chance to hear from representatives from Amateur Radio’s largest organizations active during times of disaster and emergency. An update will also be given about planning to update the Amateur Radio Emergency Service® (ARES®) including many changes that were asked for by our volunteers and partner agencies: training, reporting, identification, leadership development, and more. Sponsored by ARRL, the national association for Amateur Radio.
Panelists: 1. Rob Macedo, KD1CY, VOIP WX Net and VOIP Hurricane Net; 2. Paul English, WD8DBY, US Army MARS; 3. David Stapchuk, KD9DXM, US Air Force MARS; 4. Bill Feist, WB8BZH, SATERN; 5. Ross Merlin, WA2WDT, Department

Forums

of Homeland Security, SHAred RESources (SHARES); 6. Ted Okada, K4HNL, Chief Technology Officer, FEMA; 7. Malcolm Kyser, KG4G, Chief of Communications, Civil Air Patrol.

2:30-3:30 **Room 4** **Young Ladies' Radio League**
Marilyn Melhorn, AF7BI
Marilyn is the current President of Young Ladies' Radio League
Clubs, Girl Scouts, and more!
How it's happening and what you can do
Anne Manna
YLRL: Introduction to the largest organization for women hams (YLs) world-wide.

3:55-5:00 **Room 2** **System Fusion Forum**
Moderator:Mark Thompson, WB9QZB
The System Fusion™ Forum will include a presentation & discussion about Yaesu's System Fusion™ Voice & Data technology designed exclusively for Amateur Radio. The forum will review updates to Yaesu's System Fusion™ technology including 2m / 70cm Analog FM / C4FM Digital Voice Repeaters & Mobile / Portable radios and WiRES-X™ (Wide-coverage Internet Repeater Enhancement System) & IMRS™ (Internet-linked Multi-site Repeater System) VoIP communications linking systems.
John Kruk, N9UPC
Yaesu System Fusion™ News & Update
John Kruk, N9UPC, Sales Manager, Amateur Radio Sales Division, Yaesu USA

3:50-5:00 **Room 3** **Software Defined Radio**
Stephan Hicks N5AC
Multiple speakers will discuss new advances in the world of Software Defined Radio and will form a panel at the end to discuss questions from the audience. Moderated by Steve Hicks, N5AC, VP Engineering FlexRadio Systems.

3:45-5:00 **Room 4** **75 Years of CQ - Ham Radio's Independent Voice**
Rich Moseson, W2VU, Editor, CQ magazine
A look at CQ magazine and ham radio from 1945 to today and into the future.

3:00-4:45 **Room 5** **New Products Showcase**
Moderator: John Burningham, W2XAB
The current state of the DMR networks, radios, and hot spots followed by a short introduction to writing your own code plugs.

Saturday, May 18th

9:15-10:15 **Room 1** **Ham Nation**
Bob Heil, K9EID
The HAM NATION hosts will be on stage to discuss this past year of Ham Nation programs on Leo Laporte's TWIT.TV network.
You finally fixed your transmit audio, now what about your RECEIVE audio? Dr. Bob brings more science of audio to this important subject.

9:15-12:00 **Room 2**

Youth Forum 2019
Moderated by Carole Perry WB2MGP
Tamitha Skov, The Space Weather Lady, WX6WW
The Effects of Space Weather on our daily lives and communications
Tamitha will address the "Mars Generation" about the effects of Space Weather on our daily lives and our communications.
Conner Black, age 17, W4IPC Working Amateur Satellites and DX Contesting
Isaac Schofer, age 14, AC3CJ The BITX40 Radio Project
Marissa Robledo, age 12, W4AQT Why Working Satellites Helps Students
Galen Gold, age 20, KB6EE Compact Modulated CW Foxhunt Transmitters
Sibi Raja, age 15, KE0MWB Working with FEMA and Emergency Preparedness with Radio
Vonita Latham, age 13, KM4CLT Fun With the Boy Scout JOTA
Xenia Berger, age 18, ZL4YL Getting Involved in Fun Ways in Amateur Radio
Jose Foxx, age 18, KV8RED Escorted by Representative of the 'Mexican Embassy'

9:15-10:40 **Room 3**

Foxhunt/ARDF
Dick Arnett, WB4SUV
An acknowledged foxhunter for over 40 years and an acomplished ARDFer for over 20, Dick along with co-speakers Brian DeYoung and Bob Frey will discuss the many aspects of VHF and HF foxhunting from both a mobile and on-foot aspect.
Dick Arnett, WB4SUV
Annual Poll, The Mobile Hunt - Getting Started
As and avid mobile fox hunter, Dick loves to bring new people into this fun activity. He will discuss types of receivers, antennas and additional extra needed get beginners on the road to success.
Brian DeYoung, K4BRI
Design and Construction suggestions for Foxhunting Equipment
Equipment used for foxhunting and ARDF is a little different than most ham rado projects. Some experiences and suggestions for the design and construction of equipment used in foxhunting and ARDF.
Bob Frey, WA6EZV
ARDF is a fast paced on-foot type of foxhunt that can be enjoyed by individuals of all ages. It combines the skills of orienteering, map reading, with the directional skills of foxhunting. Topics include: Discussion of equipment and techniques needed for both 2M and 80M On-foot hunts (ARDF) as well as upcoming events.

9:15-10:30 **Room 4**

HamSCI Forum
Nathaniel Frissell, W2NAF
Nathaniel Frissell, W2NAF, is a research professor of the New Jersey Institute of Technology and the principal founder and leader of the Ham Radio Science Citizen Investigation.
Steve Cerwin, WA5FRF
Ionospheric Disturbances at Dawn, Dusk, and During the 2017 Eclipse
The author recently participated in the HamSCI propagation experiments during the August 2017 total solar eclipse and the ARRL November 2017 Frequency Measuring Test.
Bill Liles, NQ6Z
Using WWV Timing Reference Signals to Observe Ionospheric Variation. For

		decades, an AM modulated time signal has been broadcast at multiple HF frequencies by the National Institute of Standards and Technology (NIST). **Ethan Grace and George Lemaster (WB5OYP)** Sudden Ionospheric Disturbances (SIDs) and Personal Space Weather stations. This presentation will deal with Sudden Ionospheric Disturbances (SIDs), what they are, what their effects are, how they can be observed easily at home, and observations combined with others to form a more complete view of the ionosphere. **Scotty Cowling** Update on Personal Space Weather Station & SDR Hardware. The Personal Space Weather Station is a HamSCI project to create a distributed network of ground-based ionospheric and space science instrumentation. This presentation will discuss the current mission objectives and project requirements, as well as the status of current hardware development.
9:15-10:15	**Room 5**	**Summits on the Air** **Moderator: Keith Schlottman, KR7RK/VA3RRK** Keith Schlottman, KR7RK / VA3RRK enjoys both ham radio and hiking, and is a SOTA "Mountain Goat" and "Super Sloth". Keith has served in various leadership roles in many ham radio organizations. He has been the Treasurer of Ten-Ten International Net for over 25 years and works in the financial services industry. **Keith Schlottman** Summits On The Air: Ham Radio and the Great Outdoors Improvements in portable gear have made it easier than ever for hams to combine outdoor activities with amateur radio. The SOTA program provides opportunities for everyone to participate, whether you're a long-distance hiker, mobile operator, or working from your shack at home. SOTA is an excellent way to share our hobby with youth, who may be find the "Adventure" aspect interesting. The SOTA program is also an excellent way to practice emergency service station setup and operation. SOTA provides opportunities to field-test various equipment, and is a great way to learn more about the effects of operating location on signal propagation. This presentation will discuss ways to enjoy this world-wide program for newcomers and old-timers alike.
10:15-11:15	**Room 1**	**Heil Sound Workshop** **Bob Heil** The HAM NATION hosts will be on stage to discuss this past year of Ham Nation programs on Leo Laporte's TWIT.TV network. You finally fixed your transmit audio, now what about your RECEIVE audio? Dr. Bob brings more science of audio to this important subject.
10:50-11:50	**Room 3**	**I Am A New Ham, Now What Next?** **Frank J. Beafore, WS8B** Frank is an Extra Class operator first licensed in 1977. His interests include: antenna design and build, home brewing and 20 and 40 meter SSB operations. Frank also has served Hamvention since 1991 in many different capacities. He is currently the co-chair for the Awards Committe.

Dr. Richard A. Allnutt - WS8G

Rick is an Extra Class operator first licensed in 1982. Rick is currently the assistant general chairman for this year's Hamvention. Rick has been active home brewing QRP, antenna design, digital communications and recently in contesting.

So now I am a New ham. What do I do next?

All newly licensed hams have a lot of questions pertaining to "what's next". Rick and Frank will present real-world questions heard from new hams as well as taking questions from the audience. Many subjects will be covered including: SWR, nets, antenna design, DX, propagation basics, mobile and fixed installations, public service and lots of other related questions. This forum is designed for the new ham, but all license levels are invited. Frank and Rick do not have all the answers, so help will be requested from the audience. Please join us for the fun.

10:40-11:50 **Room 4** **Fast Scan ATV**

Art Towslee, WA8RMC

I've been involved with ATV since 1965 and retired from electrical engineering of 44 years. Since 1965 I've been involved in almost all aspects of ATV in the UHF/ microwave bands including digital ATV. I am the hardware designer of the DATV-Express DATV.

Gordon West, WB6NOA

Mel Whitten, K0PFX

Exploring the world of High Definition Digital Television.

Like to get started or re-started in Amateur TV? Mel will explore the current digital ATV gear available and how it can be used to assemble a high performance station. Sharing his operating experience and years of building gear, Mel will show you how to an ATV Station.

Mike Collis, WA6SVT

California ATN Network update

Art Towslee, WA8RMC

Wrap up and summary of the available DATV MiniTiouner DVB-S/S2 receiver module

10:30-11:30 **Room 5** **Kenwood Equipment Forum**

Mr. Jan Sevaites, N8CBX

Mark Gilger, WB0IQK

Kenwood Legacy Equipment Resources

Mark was first licensed in 1966 and has been continuously active since that time. He holds an General Class License. He is active HF SSB & AM. Mark is one of the net controls for the Kenwood Hybrid 20 & 40 meter technical net. He enjoys restoring Kenwood Legacy Equipment.

11:25-1:50 **Room 1** **DX Forum, sponsored by the SouthWest Ohio DX Association, SWODXA**

Jay Slough, K4ZLE

"Brunei, V84SAA" by KO8SCA, Adrian Ciuperca

"VP6D, Ducie Island - DX Sharks" by K5GS, Gene Spinelli; K3EL, Dave Lloyd; W2LK, Les Kalmus

"KH1/KH7Z - the rest of the story - getting there" by N1DG,Don Greenbaum; K6TD,

Kevin Rowett

"Legacy of W0AIH, What can we carry forward?" by W0GJ, Glenn Johnson

At the conclusion of the DX Forum, we will draw the lucky winner for the Yaesu transceiver, so generously donated by Yaesu. All proceeds from this activity are used 100% to help fund DXpeditions like the ones being presented in this forum.

Note: This may not be the presentation order. However, the presentation on W0AIH will be the last presentation for the forum so that any contesters planning to attend the Contest Forum, immediately following ours, can come early and hear the entire program.

12:10-1:40 **Room 2** **AMSAT**

Robert Bankston, KE4AL

Bio: First licensed in 1990, Robert explored many facets of amateur radio, but eventually found his home in amateur radio satellite operations. Whether from home or off on a GridXpedition, he's happiest on the Birds.

Joe Spier AMSAT-NA President, K6WAO

AMSAT Status Report

Joe will highlight recent activities within AMSAT and discuss some of our challenge, accomplishments, projects, and any late breaking news.

Jerry Buxton AMSAT-NA Vice President for Engineering, N0JY

Jerry will talk about the latest Fox and Golf (Greater Orbit Larger Foot Print) Projects

Alan Johnston, Vice President AMSAT -NA Educational Services

Subject: Alan will discuss AMSAT's new Cubesat Simulator Program

Robert Blankston Vice President AMSAT -NA User Services

Robert will discuss AMSAT's 50th Anniversary Operating Event, as well as the new AMSAT Ambassadors Program.

12:00-1:15 **Room 3** **ARRL Member Forum**

Dale Williams, WA8EFK, ARRL Director -- Great Lakes Division

GARRL welcomes all members and friends to this 2019 ARRL National Convention, hosted by Hamvention. ARRL is the national association for Amateur Radio in the US. Members help advance the art, science, and enjoyment of Amateur Radio. ARRL publishes the popular monthly journal QST, coordinates an extensive all-volunteer field organization, and serves members as Amateur Radio's representative voice in regulatory and legislative matters. At this interactive session, you'll hear from national and regional ARRL officials on key areas of membership interest. Find out how ARRL supports dozens of ways to get involved, get active, and get on the air. Members and prospective members are all welcome!

12:30-1:30 **Room 4** **VHF-UHF-Microwave Forum**

Tony Emanuele, CQ Magazine VHF + Column editor

Donn Baker, WA2VOI Your First Microwave Band... Cheap!

John Young, KM4KMU Observations on FM Contesting.

Chip Taylor, W4AIM Microwaves and Mountaintops, good and bad.

Kent Britain, WA5VJS Yagis: Stacking myths & old wives tales.

Jeff Wadsworth, KI5WL Inexpensive Test Signal Sources for 10 and 24 GHz.

Tony Emanuele, K8ZR 8 GHz Fun in the Arizona Sun.

11:45-1:00 **Room 5** **Satern**

Bill Feist, WB8BZH

Bill is the National SATERN Liaison for The Salvation Army. SATERN is the Salvation Army Team Emergency Radio Network. Bill has been a member of SATERN since 1994 and is currently the Divisional Emergency Disaster Services Disaster Liaison for the Alabama-Louisiana-Mississippi (ALM) Division. In his 24 years of service as a volunteer and staff member, Bill has participated in or led numerous responses by The Salvation Army to major fires, hazardous materials incidents, SWAT actions, tornados, floods, hurricanes (Ivan, Katrina, Gustav and Isaac to name a few) and wildland / forest fires. He was also part of The Salvation Army response to at the World Trade Center in New York in 2001. Feist is a Certified Emergency Manager (CEM) through the International Association of Emergency Managers (IAEM).

2:00-3:50 **Room 1** **Contesting Forum**

Doug Grant, K1DG

Doug was first licensed in 1967 and has been continuously active since that time. He has operated countless contests, and has won many of them. He was a founder of the World Wide Radio Operators Foundation (WWROF) and is currently working on a book about contesting for ARRL, due to be published in late 2019.

Violetta Latham, KM4ATT

Marty Sullaway, NN1C

The Team Exuberance WPX SSB operation at K3LR

What happens when the owner of a multi-multi contest statoin opens it up for an enhusiastic group of young operators from multiple home locations? The operators must make all the arrangements for travel, parental permissions, and raising the funds to cover travel costs before they make a single QSO.

Victor Androsov, VA2WA

Randy Thompson, K5ZD

Changing the game - Contesting with a Live Scoreboard

Have you ever wondered how your competition was doing during a contest? Live scoreboards make that possible. This talk will describe the current status of Online Scoreboards and how they can affect your operating and add fun and excitement to the game.

Carlo De Mari, IK1HJS

The Road to WRTC2022

The next World Radiosport Team Championship will be held in Italy in 2022. Learn how to qualify for the “Olympics of Ham Radio” or volunteer to help and start making travel plans to attend!

Ed Muns, W0YK

FT8 and the Future of Contesting

The speed of adoption of the FT8 mode has been unprecedented. It has already impacted “RTTY” contesting, and could have an effect on the future of contesting in general. Imagine a future with “Fox-Hound” mode in use on CW - working multiple stations on a band simulatneously...

Chris Hurlbut, KL9A

Kam Sirageldin, N3KS

TI7W and the Quest for 10,000 QSOs

What does it take for a single-op to make 10,000 QSOs in a single weekend? That’s an average rate over 200 QSOs per hour for 48 hours. Operator skill, the "2BSIQ" dual-CQ technique, a suitable location, and a finely-tuned station are all needed. Hear what operator KL9A, and station builder N3KS have done to chase the goal.

1:50-3:20 **Room 2**

AREDN
Andre Hansen, K6AH

Andre has been a ham for 50 years, having passed his Novice in 1969 as WN6AQZ. As the AREDN "project manager" he finds this open-source, volunteer-based effort personally rewarding and is "…thrilled at how far the team has been able to take this technology".

AREDN - Broadening the Face of Ham Radio to a New Generation

It's not hard to imagine mesh technology having an appeal to younger hams. What was harder to foresee was the number of opensource Linux developers who would latch onto this project, get their ham licenses, and participate in the evolution of this technology.

Andre will discuss this phenomenon as well as bringing us up to speed on AREDN developments and notable implementations over the past year.

1:30-2:30 **Room 3**

Engaging Today's Radio Amateur
Howard E. Michel, WB2ITX, ARRL Chief Executive Officer

Come meet ARRL's new CEO, Howard Michel, WB2ITX – and hear from him about ideas and opportunities to more deeply interest and engage newcomers and inexperienced radio amateurs. "Ham radio shouldn't abandon the old guardians of the hobby, but at the same time, it needs to have new things that appeal to people who have different interests and different passions." A variety of topics will be covered, including the role of radio amateurs in advancing technology, opportunities to volunteer, and creating meaningful connections for young hams and educational institutions.

1:40-2:40 **Room 4**

Quarter Century Wireless Association (QCWA)
Moderator: Ken Oelke, VE6AFO

Ken was first licensed in 1961 as VE6AFO, and has been continously active since that time. He has been President of QCWA since 2012. Ken enjoys all aspects of amateur radio, and operates on all bands from 160 meters to 70 CM. Moon bounce was one of his favorite modes.

Carole Perry, WB2MGP

QCWA Annual Members' Meeting, Youth Activities & Forum

Celebrating Amateur Radio operators achieving 25 years in Amateur Radio, and develops resources to assist young Amateur Radio operators in furthering their education through the QCWA Scholarship Program.

Plan to attend this exciting forum to learn about QCWA Youth Activities, and the new QCWA/RCA Youth initiative. As well learn of our support for the ARISS Program, the 'Young Ham Lends a Hand' and the Dave Kalter, KB8OCP Memorial Youth DX Adventure. This year we will be holding the Annual Members' Meeting in conjunction with our forum. Learn of our past achievements, financial and other QCWA business. This is your forum, so be prepared to become engaged in QCWA's future! Plan to participate in a lively 'Question & Answer" session.

1:15-2:15 **Room 5**

Lightning and Grounding
Moderator: Ronald Cohen, K3ZKO

Ron was in the Two-Way Radio field for 37 years dealing with lightning protection at remote mountaintop radio sites. You have to be in control of the lightning and direct it to go the shortest and with least resistance to ground.

4:00-5:00 **Room 1**

Gordon West, WB6NOA
Gordo celebrates 50+ years of ham radio fun
When Field Day Plans Blow Out the Window

Gordon West will take you through the funny excitement of past Field Day bloopers, with special guest Chip Margelli, K7JA, and their classic observations of what can go wrong, what DID go wrong, with hilarious photos and sound effects.

3:30-5:00 **Room 2**

Digital Modes: Now and for the Future
Mel Whitten, K0PFX

Mel was an early adopter of HF digital modes from Amtor/Pactor, and various data and image transfer programs to spending the last dozen years on Digital Voice. Licensed on his 12th birthday, Mel has continously been active on HF thru Microwave through his 61 years as an amateur radio operator. His current interest is in Hi-Def digital ATV designing and building systems to further enhance the user experience.

Mark Miller, N5RFX
2 meter and 70 centimeter Digital Radio basics

An explanation of different types of digital modulation used on 2 meters and 70 centimeters and how to interface to radios available to Amateur Radio operators.

Bruce Perens, N6BP
Return of the "HT Of The Future"

Out of the ashes of the first HT of the future prototype, a new SDR and Linux-based platform shows the power of Codec2 and soft modem-based communications for mobile and handheld platforms. Voice clarity, S/N, distance, fading and bandwidth are improved over FM and the first-generation digital voice platforms like D-Star, DMR and System Fusion. Advanced protocols bring many new features.

Rick Crockett, W0PC
Integrating New Hams in a Digital World

Mentoring, How, When, and Where: Generating interest in ham radio begins with your 30 second spiel about ham radio. Public demonstrations like Field Day, Bike-a-thons and other public service events show we are still a moden communications resource. Makers Fairs are great places to demonstrate ham radio to a technically minded audience. Advertise license classes where your future students are likely to see, Show career opportunities that can grow out of the hobby.

2:45-3:45 **Room 3**

HamRadio Workbench Build Projects
George Zafiropoulos
Introducing the BenchDuino - The Ham Radio Workbench Podcast development platform for the Arduino and other processors

Microcontrollers are at the heart of many ham radio projects today. In this session we will talk about a practical approach to learning how to design and prototype circuits as well as writing and debugging code for the Arduino. Project examples include the BenchDuino - a development platform for Arduino based projects and a 4 port remotely controlled coax relay featured on the Ham Radio Workbench Podcast.

2:50-3:50 **Room 4** **Drake Legacy Equipment**

Mark Gilger, WB0IQK

Mark was first licensed in 1966 and has been connntinuously active since that time. He is active HF SSB & AM. Mark is one of the net controls for the Drake 40 meter technical net in addition to the Kenwood Hybrid nets on 40 & 20 meters. He enjoys restoring Drake and Kenwood legacy equipment.

Mike Bryce, WB8VGE

Subject: THE HEATHKIT SHOP - DRAKE EQUIPMENT UPGRADES

Mike Bryce, WB8VGE, was licensed in 1975 and currently holds an Amateur Extra class license. Retired after nearly 50 years at Republic Steel, you'll find him running QRP on the low end of 40 meters. Mike was inducted into the QRP Hall of Fame in 2000. When the bands fold you'll find Mike up to his elbows fixing a broken radio. His spare time is divided by keeping the water levels topped up in the batteries for his solar power station and working in his greenhouse. Mike is a collector of old radios; Heathkit, Ten Tec, and of course Drake radios are his passion. He operates a one person website that caters to those looking for parts and upgrades. Mike is the author of numerous ham radio and solar power articles over the years. Mike is the author of the ARRL book, Emergency Power for Radio Communications.

4:00-5:00 **Room 3** **ARRL Collegiate**

Andy Milluzzi, KK4LWR, ARRL Public Relations Committee; Tony Milluzzi, KD8RTT, ARRL Volunteer, Collegiate Amateur Radio Initiative

A growing number of campus radio clubs and student radio amateurs are sharing ideas and suggestions on the ARRL Collegiate Amateur Radio Initiative (CARI) Facebook page, www.facebook.com/groups/ARRLCARI. They're (re)inspiring ham radio among our nation's colleges and universities, meeting other students, and developing career connections. Hear from students, alumni, and faculty. The ARRL Collegiate Amateur Radio Initiative is sponsored in part by the W1YSM Snyder Family Collegiate Amateur Radio Endowment.

4:00-5:00 **Room 4** **Robotics in the Classroom**

Kerry Hicks, KA9HFX

Kerry was first licensed in 1980. For the past 6 years, he has been using his 34+ years of experience in engineering and education to coach FIRST robotics at the Dayton Regional STEM School. With the help of his XYL Juanita, he has worked to build a lasting program in robotics at the school.

4:00-5:00 **Room 5** **The Portable Magnetic Loop**

Speaker: Alexandre Grimberg, PY1AHD

Magnetic Loop antennas existed for more than 100 years and Alex decided to design the Portable Magnetic Loop Antenna for a simple - then - ever outdoor antenna operation, and as the ultimate solution for the antenna restricted hams.For over 15 years of intense work Alex was challenged to break 5 unbeatable technical paradigms to create the first Portable Magnetic Loop Antenna - The world famous AlexLoop. All those 15 years of the Portable Magnetic Loop Antenna research and development challenges will be compacted on a 50 minutes presentation which will bring to the audience technical information and a lot of fun. Six short duration videos will be presented including some exotic projects such as the Coke Loop - http://www.alexloop.com/artigo36.html and the Stealth Tableantenna - http://www.alexloop.com/artigo15.html. Post 599, a BSA affiliated ham club for teens in the Phoenix area.

Sunday, May 19th

9:15-10:15 **Room 1** **WWV**

Matt Deutch, N0RGT

Matt, N0RGT, is originally from Wappingers Falls, New York. He was an Electronics Technician in the Coast Guard for 6 years and has worked at WWV for 30 years. Licensed since 1992.

Matt will give a presentation about the LF/HF broadcast station WWV/H/B and the upcoming 100th anniversary of the WWV time standard broadcast.

9:15-10:15 **Room 2** **ARRL's New Volunteer**

Riley Hollingsworth, K4ZDH

Amateur Radio has a long history of teaching the rules and regulations and helping each operator stay within the lines. Former ARRL Atlantic Division Vice Director Riley Hollingsworth, K4ZDH, will discuss the new ARRL Volunteer Monitoring Program.

9:15-10:15 **Room 3** **Tornado Alert - Severe Weather Detector**

Mickey Lee

Tornado Alert New weather detection technology

It is well known that tornadoes can be identified visually or by analysis of doppler radar. Advances in technology have allowed sensors that measure electrical energy, lightning and others sources, to determine how intense is the thunderstorm that is generating the energy. One device even determines distance and movement as it updates every minute. This talk will describe the technology and how to utilize for household protection, storm spotter activity, or lightning threat awareness. www.earlyalert.com

9:15-10:15 **Room 4** **Fasttrack Ham**

Michael Burnette, AF7KB

Award-winning ham radio author Michael Burnette, AF7KB, is the author and narrator of the popular Fast Track ham license training programs. His books, e-books, and audio programs reflect his commitment to comprehensive amateur radio education. His programs have been purchased by thousands of hams, whether to get their first license or their Amateur Extra license. His passion for the material, his use of an innovative progressive learning system, his commitment to creating a useful body of knowledge for the students, and his lighthearted, often humorous approach to the topic has proved quite popular.

Michael is a dynamic and entertaining presenter with decades of presentation experience.He and his wife, Kerry, AG7SC, live near Seattle, WA. They are very active with their local club, the Snohomish County Hams Club, where Michael orients new hams and Kerry leads a weekly YL net.

A lively, informative, and fun 50 to 60 minutes on study techniques that really work -- as Michael says, "techniques tested and peer-reviewed by real neuro-scientists with real lab coats and clipboards!"

10:30-11:30 **Room 1** **Power and Energy for the Radio Amateur**
Bob Bruninga, WB4APR

Solar costing less than half the utility; Electric Vehicles able to power your FD site or house for a week; Cutting heating fuel costs in Half with portable and window heatpumps! These are just some of the exciting projects covered in this new and exciting forum.

Second to APRS, Bob (WB4APR) Bruninga's interest in Ham Radio is about emergency and field operations and saving money on Energy. Now he has written a book on Energy and Power for the Radio Amateur that is newly published by the ARRL.

He will describe how to get involved in solar addressing grid-tie and off-grid applications and include many DIY approaches to this highly economical source of power. He has a history with EV's going back to 1970 when he built his first EV as a senior at Ga Tech. Then acquiring a City Car in the 1980s and more recently converting salvage Priuses for solar power and emergency Field operations. Now he has found the Volt to be the ideal EV for long EV local range and for cross country trips.

10:30-11:30 **Room 2** **Discovering Radio Communications**
Presented by ARRL Education & Technology Program Instructors Tommy Gober, N5DUX and Larry Kendall, K6NDL

Solar, wind, batteries and electric cars are revolutionizing the home energy considerations for the Radio Amateur. Just in the last ten years, home grid-tie solar now costs less than half the utility, The average cost of the 35 Electric Cars now on the market with incentives now costs several thousand dollars less than the average gas car. And with the Tesla Gigafactory, now energy storage for the home is becoming practical. These all contribute to energy security for the home and ham shack but it is not your father's 60 Hz legacy iron boat anchors any more. For example, the engine/generator in a simple Prius is rated at 50,000 Watts. Home solar is typically 5 to 10 kW.. Come learn about what you can do to incorporate new energy into your home and shack.

10:30-11:30 **Room 3** **Principles of Amateur Radio Leadership**
Michael Kalter W8CI, Rick Allnutt WS8G

Title: 5P – The Five Principles of Amateur Radio Leadership

Summary: Leading Amateur Radio activities requires all the skills of leadership useful in other volunteer activities and non-profit organizations. But, really effective leadership of Ham Radio organizations also requires active and visible participation.

10:30-11:30 **Room 4** **Digital Mobile Radio**
John Burningham, W2XAB

John has been involed with repeaters since the early 1970's and is currently active with DMR and the K4USD Network. Winner of the 2016 Hamvention® Technical Achievement Award. He is a contributing author to the ARRL Handbook and QST. He has a beginners guide to DMR available free at http://guide.k4usd.org

Forums Overall Schedule

2019 Forums Overall Schedule

FRIDAY May 17, 2019

	Room 1	Room 2	Room 3	Room 4	Room 5
9:15 AM	TAPR Scott Cowling WA2DFI 9:15-10:35	Remote Access to your Amateur Radio Station Mark Aaker K6UFO 9:15-10:15	The ARRL Lab: Trials, Tribulations and (Tall?) Tales 9:15-10:30	SHARES HF EMCOMM Ross Merlin WA2WDT 9:15-10:15	Parks on the Air Julie Martin K8VOX 9:15-10:30
9:30 AM					
9:45 AM					
10:00 AM					
10:15 AM					
10:30 AM		Mars Paul English 10:25-11:25		Instructor's Forum Carole Perry WB2MGP 10:30-11:30	
10:45 AM	APRS Bob Bruninga WB4APR 10:45-11:50		Digital Contesting Ed Muns W0YK 10:40-11:40		Collins Radio David Knepper W3ST 10:45-11:45
11:00 AM					
11:15 AM					
11:30 AM					
11:45 AM		D-Star Robin Cutshaw AA4RC 11:35-1:00		Kit Building Joe Elsenberg KONEB 11:45-12:45	
12:00 PM	Homeland Security John Peterson 12:00-1:50		ARRL Spotlight on Radio Clubs and Mentoring 11:50-1:05		Balloon Sat Bill Brown WB8ELK 12:00-1:30
12:15 PM					
12:30 PM					
12:45 PM					
1:00 PM				Techniques of Best Operators Mitch Stern W1SJ 1:00-2:15	
1:15 PM		National Weather Service Brandon Peloquin 1:10-2:30	ARISS Rosalie White K1STO 1:15-2:15		
1:30 PM					
1:45 PM					Using KiCad Barry Buelow W0IY 1:45-2:45
2:00 PM	Antenna Forum Tim Duffy K3LR 2:00-5:00				
2:15 PM					
2:30 PM			ARRL Public Service Communications: Panel Discussion 2:25-3:40	YLRL Marilyn Melhorn AF7BI 2:30-3:30	
2:45 PM		Ham Radio and the Law Fred Hopengarten K1VR 2:40-3:45			
3:00pm					New Products Showcase 3:00-4:45
3:15 PM					
3:30 PM					
3:45 PM				"75 Years of CQ - Ham Radio's Independent Voice" 3:45-5:00	
4:00 PM		System Fusion Mark Thompson WB9QZB 3:55-5:00	Software Defined Radio Stephan Hicks 3:50-5:00		
4:15 PM					
4:30 PM					
4:45 PM					
5:00 PM					

SATURDAY May 18, 2019

	Room 1	Room 2	Room 3	Room 4	Room 5
9:15 AM	Ham Nation Bob Heil K9EID 9:15-10:15	2018 Youth Forum Carole Perry WB2MGP 9:15-12:00	Foxhunt/ARDF Dick Arnet WB4SUV 9:15-10:40	HamSCI Nathaniel Frizzell W2NAF 9:15-10:30	Summits on the Air Keith Schlottman KR7RK 9:15-10:15
9:30 AM					
9:45 AM					
10:00 AM					
10:15 AM	Heil Sound Workshop Bob Heil K9EID 10:15-11:15				
10:30 AM					Kenwood Equipment Jan Servaites N8CBX 10:30-11:30
10:45 AM			I Am A New Ham, Now What Next? WS8G/ WS8B 10:50-11:50	Fast Scan ATV Art Towslee WA8RMC 10:40-11:50	
11:00 AM					
11:15 AM					
11:30 AM	DX Forum Jay Slough K4ZLE 11:25-1:50				
11:45 AM					Satern Bill Feist WB8BZH 11:45-1:00
12:00 PM			ARRL Member Forum 12:00-1:15	VHF-UHF-Microwave Tony Emanuele WA8RJF 12:30-1:30	
12:15 PM		AMSAT Joseph Spier K6WAO 12:10-1:40			
12:30 PM					
12:45 PM					
1:00 PM					
1:15 PM					Lightning and Grounding Ronald Cohen K3ZKO 1:15-2:15
1:30 PM			Engaging Today's Radio Amateur 1:30-2:30	QCWA Ken Oelke VE6AFO 1:40-2:40	
1:45 PM					
2:00 PM	Contesting Doug Grant K1DG 2:00-3:50	AREDN Andre Hansen K6AH 1:50-3:20			
2:15 PM					
2:30 PM					New A2:Q36 Showcase 2:30-3:45
2:45 PM			HamRadio Workbench Build Projects George Zafiropoulos KJ6VU 2:45-3:45	Drake Equipment Mark Gilger WB0IQK 2:50-3:50	
3:00pm					
3:15 PM					
3:30 PM		Digital Modes Mel Whitten KOPFX 3:30-5:00			
3:45 PM					
4:00 PM	Gordon West WB6NOA 4:00-5:00		ARRL Collegiate Amateur Radio Initiative 4 :00-5:00	Robotics In The Classroom Kerry Hicks KA9HFX 4:00-5:00	The Portable Magnetic Loop Alexandre Grimberg PY1AHD 4:00-5:00
4:15 PM					
4:30 PM					
4:45 PM					
5:00 PM					

SUNDAY May 19, 2019

	Room 1	Room 2	Room 3	Room 4
9:15 AM	WWV Matt Deutch NORGT 9:15-10:15	ARRL's New Volunteer Monitoring Program and the FCC 9:15-10:15	Tornado Alert Mickey Lee 9:15-10:15	Fasttrack Ham Michael Burnette 9:15-10:15
9:30 AM				
9:45 AM				
10:00 AM				
10:15 AM				
10:30 AM	Power and Energy for the Ham Bob Bruninga WB4APR 10:30-11:30	Discovering Radio Communications 10:30-11:30	Principles of Amateur Radio Leadership Rick Allnut & Mike Kalter 10:30-11:30	Digital Mobile Radio John Burningham W2XAB 10:30-11:30
10:45 AM				
11:00 AM				
11:15 AM				
11:30 AM				

Award Winners

The Hamvention Awards committee is pleased to announce the winners of the four Hamvention 2019 awards. Co-chairs Michael Kalter, W8CI, and Frank Beafore, WS8B, thanked all those who nominated a candidate. They also thanked the selection committee for its efforts, "This is done with much deliberation and thought within the awards team to judge the best of all the applications we receive."

The Hamvention Awards event has been held since 1955. Over these years many amateurs have been honored for their dedication and selfless contributions to our avocation and to mankind. An honors convocation will also be held on Saturday evening of the Hamvention weekend and a presentation of the award winners will be made to the general audience on Sunday afternoon prior to the prize award activity.

Club of the year: Nashua Area Radio Society

Nashua Area Radio Society
Nashua Area Radio Society
www.n1fd.org
N1FD
N1FD
On The Air

The Nashua Area Radio Society (NARS) is an ARRL Special Service club in southern New Hampshire with a focus on mentoring and youth outreach to bring new amateurs into the hobby and help them to get on the air. More than 200 club members contribute to activities which include license class training, youth activities, on the air operating activities, and emergency communications training. A 501(c3) non-profit organization, the club has raised more than $8,000 to enable its Amateur Radio mentoring and outreach activities and programs.

NARS is committed to bringing new people, young and old into the amateur radio. Technician, General and Extra classes are each taught twice yearly and have helped more 210 students earn a license or an upgrade with a success rate exceeding 90 percent. Club Field Day operations provide its members with ample opportunity to develop practical Emergency Communications skills, station building expertise, and develop on-air operating skills. In addition to monthly membership meetings, the club holds a monthly "Tech Night" where members provide hands-on training which helps new and experienced Amateurs to build stations, develop technical skills, and try new activities. Video from these sessions is professionally produced to provide a library of over 50 hours of Amateur Radio demonstrations and training.

NARS holds Amateur Radio Youth Expos at local events including the Boxboro ARRL New England Convention, NEAR-Fest, and local schools and libraries. These Expos feature hands-on displays and a kit building activity along with three GOTA stations to engage interest from young and old in Amateur Radio.

The club has partnered with four local high schools and middle schools to develop and deliver STEM learning programs based upon Amateur Radio. One such project provides 14 hours of member delivered classroom presentations about Amateur Radio and High-Altitude Balloons (HABs). Students in the HAB programs launch a HAB to the edge of space and track it via Amateur Radio. As part of the ARISS program, NARS has also partnered with Hudson Memorial School, a local middle school, to help students to contact Astronaut Serena Aunon-Chancellor on the International Space Station using Amateur Radio.

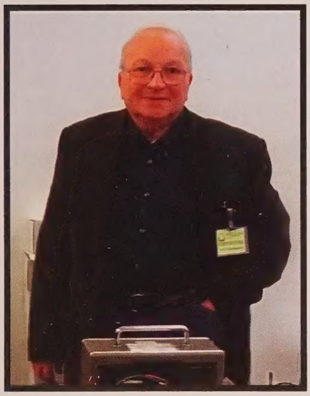
Award Winners

Amateur of The Year: Nathaniel Frissell, W2NAF

Nathaniel Frissell, W2NAF, has been a licensed ham since 1998 and is the principal founder and leader of the Ham Radio Science Citizen Investigation (HamSCI), a collective designed to join professional scientific researchers and the amateur radio community together to help each other. Nathaniel first learned about ham radio while in middle school from his elmer, Greg Nitkowski, N2BSA, at a Jamboree on the Air event. The SSB voices he heard from around the world while in that small cabin in the woods captured his imagination and led him to study the ionosphere ever since! Scouting has played an incredibly important part of Nathaniel's amateur radio career. He started the W2FSR ham radio station at Forestburg Scout Reservation, where he served as Technology Center Director and taught radio merit badge and licensing for 6 summers. He also served on K2BSA National Scout Jamboree staff three times, is an Eagle Scout, a Vigil Honor member, and remains an active scouter.

Technical Achievement Award: Pietro Begali I2RTF

Following his mechanical studies and the experience gained at the precision mechanics workshop with his father Guido Begali and later with other well-known personalities in the history of Italian mechanics, he began his work experience in his workshop in Brescia in 1954.



Passionate about his work and dedicated to his family, when the market of knitting machines for which he has always produced details of precision went into recession, he dedicated his amateur radio activity and his experience, in order to save his company and so to be able to continue his work experience in the field of mechanics thus producing Telegraphic Keys.

Always ready to challenge the fate and adversities of life and work, he has always put his heart and his experience at the service of those who requested his intervention.

Always passionate about reading (with about 10,000 pieces in his library), for most of Radio technique, mechanics and science, he wrote his book "History and Stories of Radio" in 2005, including not only history of radio and definitions of radio technology but also personal experience of work and personal life.

The most remote of Piero's memories goes back to 1943 when he listened to the home receiver (a Philips 538) and heard a dramatic speech: "Italians, I want to be once again sincere, displaced, displaced, displaced".

Special Achievement Award: Christian Janssen DL1MGB/KO2WW

Chris Janssen, DL1MGB/KO2WW, as president of the World Radiosport Team Championship 2018, lead the more than 300 volunteers that put on the successful competition in Germany which resulted in 262,746 QSOs.

First licensed in 1990 at the age of 14, Chris began his contest career on VHF. But he changed to HF when he took part in his first CQWW in 1993 and joined the Bavarian Contest Club one year later. The participation in the CQWW SSB 2000 in the team of CN8WW is still the highlight so far, being a world record holder in the Multi/Multi class for over 17 years now. Several activities within the team of DA0HQ followed resulting in several #1 places.

In 1997 Chris found out that Contesting and DXing fit very well when he went on his first DXpedition to the Faroe Islands. Since then he was active from over 20 DXCCs including 4U1VIC, 9Y4TBG, A61AJ, CN8WW, KH6/KO2WW, LX7I, OY6A, Z37M, TX5K (Clipperton), VK9DLX, VK9DNX, VK9DWX or ZL8X. Chris and the Lagunaria DX Group were the organizers of the last four. The last two were awarded as "SWODXA DXpedition of the Year". Back in Germany, when time permits, Chris also likes to contest or to chase DX.

Previous Award Winners

Amateur of the Year

1955.. William C. Jenney, W8FYW
Benjamin S. Zieg, W9EHU, K4OQK
1956.. Edmund C. Ryan, W8LRR
1957.. Ralph Crammer, W8VHO
I958 .. Rev. C. Lynn White, K4CC
1959.. Harlow Lucas, W8QQ
1960.. Paul Woffe, W8IVE
1961.. Ed Bonnet, W8OVG
1962.. Dana Cartwright, W8UPB
1963.. Chester Funk, K8EUF, K7ZKL
1964 . H. Ruble, W8PTF
1965.. Carl B. Snyder, W8ARW
1966.. Robert K Caskey, W9DNQ
1967.. Jack Gray, W8JDV
1968.. Elmer Schubert, W8ALW
1969.. Wayne Walters, W9DOG
1970.. Kay Anderson, W8DUV
1971.. Al Michel, W8WC
1972 . Don C. Miller, W9NTP
1973.. Ray E. Myers, W6MLZ
1974.. Barry Goldwater, K7UGA
1975 . Richard A. Daniels, WA4DGU
1976.. Joseph M. Hertzberg, N3EA
1977.. Rafael M. Estevez, WA4ZZG
1978.. Frank Schwab, W8OK
1979.. George G. Batterson, W2GB
1980.. Wayne Overbeck, N6NB
1981.. Eric C. Shalkhauser, W9CI
1982.. Robert G. Heil, Jr., K9EID
1983.. Katashi Nose, KH6IJ
1984.. Dave L. Bell, W6AQ
1985.. John J. Willig, W8ACE
1986.. Roy Neal, K6DUE
1987.. Carole Perry, WB2MGP
1988.. Bill Bennett, W7PHO
1989.. Bill Pasternak, WA6ITF
1990.. Stephen Mendelsohn, WA2DHF
1991.. John B. Johnston, W3BE
1992.. Richard Baldwin, WIRU
1993.. Harry Dannals, W2HD
1994.. Perry Williams, WIUED
1995.. Rosalie White, WA1STO
1996.. William A. Tynan, W3XO
1997.. Leo I. Myerson, W0GFQ
1998.. Andrew J. Feldman, WB2FXN
1999.. Kenneth M. Miller, K6IR
2000.. Marttie Laine, OH2BH
2001.. George Jacobs, W3ASK
2002.. Alanson "Hap" Holly, KC9RP
2003.. Larry "Tree" Tyree, N6TR
2004.. David Kopacz, KY1V
2005.. Alan S. Kaul, W6RCL
2006.. Gordon West, WB6NOA
2007.. Jim Haynie, W5JBP
2008.. Ward Silver, N0AX
2009.. Wade D. Hampton, K4ITL
2010.. Jim Stafford, W4QO
2011.. Shirley Roberts, N8LX
2012.... S. Suri, VU2MY
2013.. None Given
2014.. Dr. Larry E Prince, W4RA
2015.. Tim Duffy, K3LR
2016.. Joe Taylor, K1JT
2017.. Frank Bauer KA3HDO
2018.. Valerie Hotzfeld, NV9L

Previous Award Winners

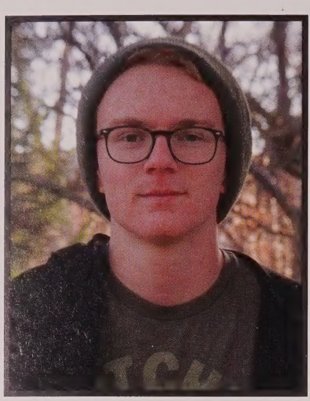
SPECIAL ACHIEVEMENT AWARD

1977......South American Moonbounce (EME)
Expedition Team of the Mt. Airy VHF
Radio Club Inc., Philadelphia, PA
Elliott Weisman, K3JJZ
Anthony Sousa, W3HMU
S. William Olsan, W3HQT
Walter Boldman, K3BPP
Daniel Mitten, WA3NFU
Socrates Martinez, WB3AFY
Bohnar Aguilar, WB3AOP
1978......Ronald Moorefield, W8ILC
1979......Edward Tilton, W1HDQ
1980......Joseph Merdler N6AHU
198I ......Bill Pasternak, WA6ITF,
Bill Orenstein, KH6IAF
1982......Bruce Humphrys, K0HR
1983......Lenore Jensen, W6NAZ
1984......Ethel Smith, K4LMB
1985......Judith Frye, KG8P
1986......Rev. Michael Mullen, C.M., WB2GQW
1987......Arthur Gentry, W6MEP
1988......Fred Hammond, VE3HC
1989........Phil Karn, KA9Q
1990........Paul Thomson, KC0VG
1991........Nate Brightman, K60SC
1992........Ned Raub, W1RAN
1993........Robert Adams, WA9ZMO
1994........Russ Kroeker, N7HGE
1995........Ed Briner, WA3TVG
1996........John Kraus, W8JK
1997........Joseph J. Fairclough, WB2JKJ
1998........John B. Bellows, Jr., K0QB
1999........Paul D. Lieb, KH6HME
2000........A. Prose Walker, W4BW
2001........Frank Bauer, KA3HDO
2002........Dr. Owen Garriott, W5LFL
2003........Jonathan Taylor, K1RFD
2004........George S. Wilson III, W4OYI
2005........D. Bharathi, VU2RBI
2006........Riley Hollingsworth, K4ZDH
2007........Ed Hare, W1RFI
2008........Emery McClendon, KB9IBW
2009........Richard Garriott, W5KWQ
2010........Richard “Dick” Ross
2011........Fred L. Lloyd, AA7BQ
2012........Steve Betza, WZ2V
2013........George a. Thomas, Jr, W5JDX
2014........David Sumner, K1ZZ
2015........Thomas C. Medlin, W5KUB
2016........Stan Horzepa, WA1LOU
2017........S. Ram Mohan VU2MYH
2018........Heriberto Perez, KK4DCX
Victor Torres, WP4SD
Emilio Ortiz JR, WP4KEY

TECHNICAL EXCELLENCE AWARD

1984.....Lyle Johnson, WA7GXD
1985 ....Richard Whiting, W0TN
1986.....M. E (Doug) DeMaw, W1FB
1987.....Henry (Hank) Oredson, W0RLI
1988.....Lew McCoy, W1ICP
1989.....Byron Goodman, W1DX
1990.....Bob McGwier, N4HY
1991.....Lou McFadin, W5DID
1992.....Gerald Cromer, K4NHN
1993.....Dick Jansson, WD4FAB
1994.....Dick Newell, AK1A
1995.....Philip Ferrell, K7PF
1996.....William Orr, W6SAI
1997.....Al Ward, W5LUA
1998.....Robert E. Bruninga, WB4APR
1999.....Alfonso R. Torres, KP4AQI
2000.....Dr. H. Paul Shuch, N6TX
2001.....Peter Martinez, G3PLX
2002.....Allen Waller, K3TKJ
2003.....Steve Dimse, K4HG
2004.....Barry Sanderson, KB9VAK
2005.....Dr. Jerry Sevick, W2FMI
2006.....Richard Illman, AH6EZ
2007.....David Cameron, VE7LTD
2008.....Thomas C. McDermott, N5EG
2009.....Copthorne MacDonald, VY2CM
2010.....Simon Brown, HB9DRV
2011.....Roy W. Lewallen, W7EL
2012.....Joel R. Hallas, W1ZR
2013.....David Rowe, VK5DGR
2013.....David M. Whitten, II, KD0EAG
2014.....David Freese Jr, W1HKJ
2015.....Reverend George Dobbs, G3RJV
2016.....John S. Burningham, D.I.T, W2XAB
2017.....Rob Brownstein K6RB
2018.....Chip Cohen, W1YW

2019 ARRL/DARA Scholarships



Taylor J. Herndon, KG7VZF

Taylor J. Herndon, KG7VZF, is from Star, Idaho. He received his Technician license in 2015, He was attracted to Amateur Radio "as a way of connecting with people" as well as using radio "to track high power rockets" which is his hobby. He says Amateur Radio had a major impact on his life "because it is such a fun community" where "everyone is willing to share information and new things they learn." Taylor says that through Amateur Radio he has met some of his best friends and mentors.

Taylor won 'Best in Show' at Idaho's Science and Engineering Fair in 2017. That same year, his team was also was a finalist in the International Science and Engineering Fair, took second place in the Aerospace Engineering category at Imagine Tomorrow, won the Air Force Award for Sustainable Engineering, received the Ricoh Sustainable Development Award, won the National Oceanic and Atmospheric Administration Award for Academic Excellence, and was an Idaho Science and Aerospace Scholar.

Michelle C. Massa, KD0OTN

Michelle C. Massa, KD0OTN, was first licensed at 10 years old. She is from Eaton, Ohio and was ranked in the top of her high school class.

Michelle's father, Michael, KC0IVF, and Michelle, decided to learn Morse code together. For Michelle's fifth grade project, she decided to learn the history behind Morse code and also earn her Amateur Radio license. The project required an interview, and she scheduled a call with Gordon West, WB6NOA. After moving to Ohio, Michelle met a Civil Air Patrol Representative for the Wright Patterson Squad. Within a few months, she joined the squad, and has since been involved in search and rescue operations and training, and communications. She also attends Hamvention regularly, and even got to meet "Gordo" in person!

Michelle is attending Wright State University in Dayton, Ohio and is majoring in Computer Engineering.

Elizabeth Moon, KE0BLC

Elizabeth Moon, KE0BLC, of Cedar Rapids, Iowa, was first licensed in 2014, and currently holds a General-class license. She learned about Amateur Radio from her father, Mark, N3AVA, playing a game called "Antenna, Transmitter, or Receiver?" in which her father would point to an object and ask what it could be used for. Elizabeth learned that a window screen could be used as an antenna if it was made with aluminum mesh. She also attends the local hamfest with her father and helped him install a solar power backup for a UHF repeater at their house.

At school, Elizabeth is a part of the National Honor Society and the band. She was selected to play with the state's prestigious All-State band in 2017. She is attending the University of Iowa and is majoring in Neuroscience.

2019 ARRL/DARA Scholarships

Daniel Prestin, KD8UTG

Daniel Prestin, KD8UTG, of Birch Run, Michigan, was first licensed in 2013. Daniel and his father, William, KD8UTH, converted a school bus into the family RV and installed a ham radio setup. He is currently studying for his General-class license.

Daniel has been very active in Boy Scouts and received his Eagle Scout award in 2015. Through Scouts, he has participated in food drives and placing flags on veterans' graves. Daniel received his Amateur Radio merit badge and organized his troop's participation in Field Day.

Daniel is also active in the town's Rotary Club, 4-H Club, Pep Band, and Student Council. He is attending Purdue University and plans to be a Civil Engineer.

Benjamin Tyrrell, KE0AER

Benjamin Tyrrell, KE0AER, of Mission, Kansas was first licensed in 2014. He currently holds an Amateur Extra class license and was ranked at the top of his high school's graduating class, achieving the Honor Roll all four years. Benjamin was also active on his school's cross country and track and field teams, and was named a Kansas State Honor Scholar in 2017.

Benjamin also volunteers for the Urban Trail Company, a non-profit that builds and maintains trails in Missouri and Kansas parks. He has also participated in his school's DECA and Robotics programs, plays the guitar, ukulele, and banjo and enjoys mountain biking and taking part in Field Day.

Lauren Vidal, K6LIV

Lauren Vidal, K6LIV, of Vacaville, California, holds a General-class license. She says that "Amateur Radio opened a gateway to the worlds of engineering and technology" to her, teaching her how to solder, understand the basics of electricity, and the science behind sound and wavelengths. "I am thankful to have grown up with ham radio in my life, as it has strengthened my communication skills, my interests in basic engineering, and my overall appreciation for the technologies available to us."

In high school, Lauren received Presidential High Honors in 2015, 2016, and 2017, was a Gold Medalist for the National Spanish Exam, and received the California State Seal of Biliteracy. She also participated in the student body, theater, choir and jazz ensemble, and volunteered at the North Bay Hospital and as Solano County Library Tutor.

The ARRL Foundation will be announcing the recipients of DARA Scholarships for this year after May 15th.
To apply for future DARA Scholarships, each applicant must submit a transcript from their high school or college to complete their application. Applications must be submitted via the ARRL website and transcripts should be sent via e-mail. Applications without transcripts will not be considered. Questions concerning the application process should be directed to foundation@arrl.org.
Applications must be submitted no earlier than October 1st and no later than February 1st along with a current academic transcript.

Dayton Hamvention Past General Chairs

1952-1955	John J. Willig, W8ACE	*
1956-1957	Rudy Plak, W8ZOF (W6TIK)	*
1958	Frank J. Schwab, W8YCP (W80K)	*
1959-1960	Ed F. Bonnet, W80VG	*
1961-1962	Joseph H. McNutt, W8GFN	*
1963-1964	Sheemon A. Wolfe, W8WJL	*
1965-1966	Edgar A. Smith, W8RKL	*
1967	Robert Wilcox, K8EJI	*
1968-1969	Jack Ohmart, K8CUA	*
1970-1971	Kenneth E. Mills, W8RLY	
1972	George L. Shearer, WA8IHC (KE8WJ)	*
1973-1976	Ted L. Suarez, K8BSC	*
1977	Wallace M. Wright, WA8ZCA (AD8N)	*
1978	John Basilotto, W5GI (WA8ZAN)	*
1979	Sandford H.Cohen, W8JEZ	*
1980-1981	Noel K. McKeown, WB8QQC	
1982-1983	Harold A. Judd, K4GZL	*
1984-1985	Jack Mitchell, AA8Q	
1986-1987	Jim Simpson, WB8QZZ	
1988-1989	Bill McNabb, WD8SAY	*
1990	Ed Hillman, N8ALN	
1991-1992	Ross Brown, WA8DQH	
1993-1994	Dave Grubb, KC8CF	
1995-1996	Ken Allen, KB8KE	
1997-1999	Dick Miller, N8CBU	*
2000-2002	Jim Graver, KB8PSO	
2003	Pat Neff, N8IGS	
2004- 2005	Gary Des Combes, N8EMO	
2006-2007	Jim Nies, WX8F	
2008-2009	Carl Rose, K8CPR	
2010	Lee Boeckerman, W8LFB	
2011-2012	Michael Kalter, W8CI	
2013-2014	Charles Kaiser, KD8JZR	
2015-2016	Jim Tiderman, N8IDS	
2017-2018	Ron Cramer, KD8ENJ	

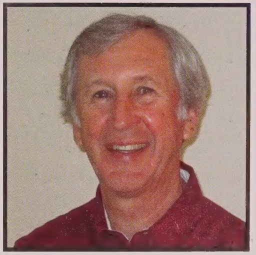
* Silent Key

Past DARA Presidents

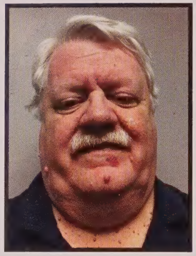
1926	C.A. Petry	8AWN
1927	C.A. Petry	8AWN
1928	Lou Driggs	W8HEQ
1929	Ray Stotts	
1930	Art John	W8DMI
1931	Fred Rawson	W8KKH
1932		
1933	Fred Allen	W8GER /W8FU
1934		
1935	Dan C. McCoy	W8CI/W8DG
1936		
1937		
1938	Emil Henrich	W8OVL
1939		
1940	Russ Gardner	W8TPC
1941		
1942	Cheever Ely	W8LJ
1943	Cheever Ely	W8LJ
1944	Cheever Ely	W8LJ
1945	Hyde E. Ruble	W8PTF
1946	Hyde E. Ruble	W8PTF
1947	Russ Hardy	W8AQT
1948	Clem Wolford	W8ENH
1949	John Willig	W8ACE
1950	Clem Wolford	W8ENH
1951	Frank Schwab	W8YCP/W8OK
1952	Frank Schwab	W8YCP/W8OK
1953	Hyde E. Ruble	W8PTF
1954	Rudy Plak	W8ZOF
1955	Allan D. Gunston	W8GQ
1956	Andrew B. Henderson	W8WYL
1957	Robert G. Siff	W8QDI
1958	Ed F. Bonnet	W8OVG
1959	Joseph H. McNutt	W8GFN
1960	Walter G. Burdine	W8ZCV
1961	Robert F. Zimmerman	W8DPW/W8ZM
1962	Hyde E. Ruble	W8PTF
1963	Richard D. McFadden	K8ERE
1964	Ted Suarez	K8BSC
1965	Robert E. Wilcox	K8EJI
1966	Jim Dakin	K8BPC
1967	Ken Mills	W8RLY
1968	George Shearer	WA8IHC/KE8WJ
1969	George Shearer	WA8IHC/ KE8WJ
1970	Owen Vance	WA8PHW
1971	Jules Wittebort	W8SE
1972	Budd Chaney	WA8UUX
1973	Wesley Duckwitz	W8IPT
1974	Ken Mills	W8RLY
1975	Robert O. Wilson	W8JRN
1976	Robert O. Wilson	W8JRN
1977	Melvin L. Levy	WA8YKV
1978	Melvin L. Levy	WA8YKV
1979	William G. Ingling	W8SVI
1980	William G. Ingling	W8SVI
1981	Victor M. Stauder	N8FPF/WA2KOO
1982	Victor M. Stauder	N8FPF/WA2KOO
1983	Thomas Holmes	N8ZM
1984	Victor M. Stauder	N8FPF/WA2KOO
1985	Edgar “Red” Smith	W8RKL
1986	Ray Smith	KR8B
1987	Ray Smith	KR8B
1988	Al Torres	KP4AQI
1989	Thomas Holmes	N8ZM
1990	Thomas Holmes	N8ZM
1991	Ron L. Moorefield	W8ILC
1992	Thomas Holmes	N8ZM
1993	Victor M. Stauder	N8FPF/WA2KOO
1994	Thomas Holmes	N8ZM
1995	Dave Coons	WT8W
1996	Dave Coons	WT8W
1997	Michelle Ervin	KA9FUL
1998	Gary DesCombes	N8EMO
1999	Gary DesCombes	N8EMO
2000	John Phillips	N8ZGT
2001	Reuben Meeks	W8GUC
2002	Reuben Meeks	W8GUC
2003	Mike Buehler	N8XGA
2004	Mike Buehler	N8XGA
2005	Michael Kalter	W8CI
2006	Michael Kalter	W8CI
2007	Jim Simpson	WB8QZZ
2008	Jim Simpson	WB8QZZ
2009	Steve Coy	K8UD
2010	Jim Simpson	WB8QZZ
2011	Steve Coy	K8UD
2012	Don Dubon	N6JRL
2013	Don Dubon	N6JRL
2014	Reuben Meeks	W8GUC
2015	Don Dubon	N6JRL
2016	Andrew Anderson	N8VES
2017	Andrew Anderson	N8VES
2018	Ron Cramer	KD8ENJ

Dayton Amateur Radio Association

DARA Board

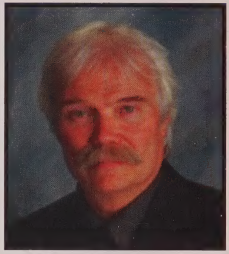


Ron Cramer, KD8ENJ
President



Jim Storms, AB8YK
Vice President

Nancy Krodel, KC8RMT
Secretary



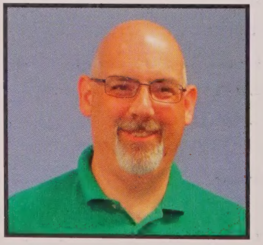
Michael Kalter, W8CI
Treasurer

Jim Tiderman, N8IDS
Senior Trustee

Jeff Devoe, K8JTD
Junior Trustee

Jack Gerbs, WB8SCT
Hamvention General Chair

Planning Council



Rob Lunsford, KB8UEY

Charles Kaiser, KD8JZR

Carl Rose, K8CPR

While you are in town be sure to stop by the newly re-modeled club house with a 4000 square foot addition

Dayton Amateur Radio Association
Sponsor of Dayton Hamvention®
W8BI
est 1930

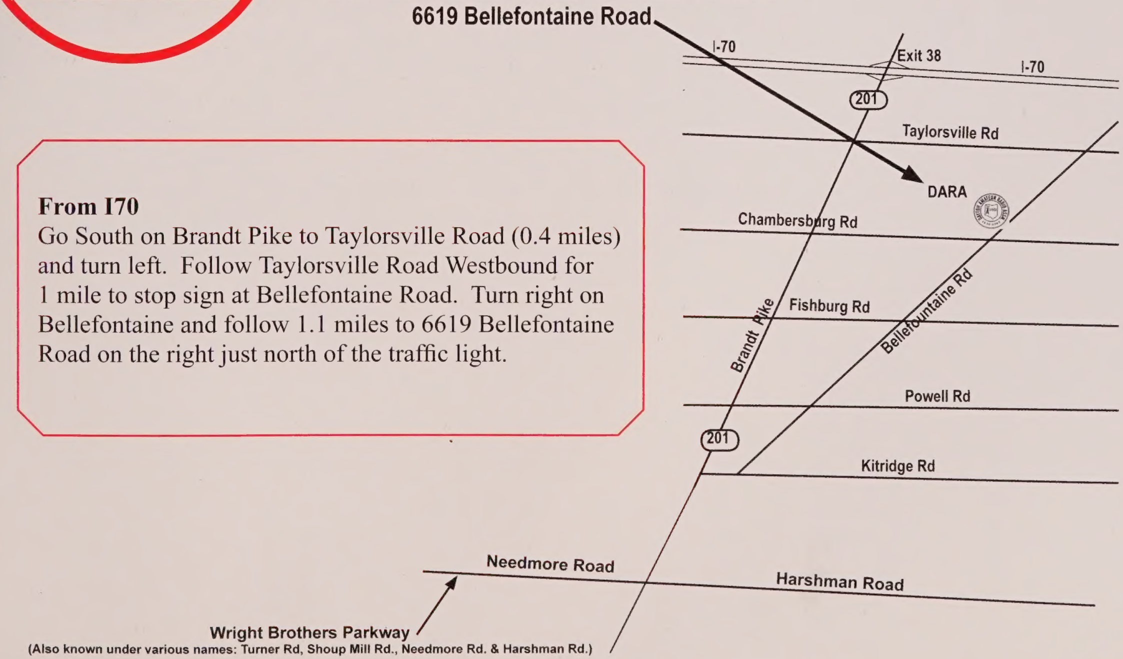
Come join us for our Open House!

DARA Club House

Open House Hours:
Friday 6:00 p.m.-8:00 p.m.
Saturday 6:00 p.m.-8:00 p.m.

Directions to DARA's Club House

From I70
Go South on Brandt Pike to Taylorsville Road (0.4 miles) and turn left. Follow Taylorsville Road Westbound for 1 mile to stop sign at Bellefontaine Road. Turn right on Bellefontaine and follow 1.1 miles to 6619 Bellefontaine Road on the right just north of the traffic light.


6619 Bellefontaine Road
I-70
Exit 38
I-70
201
Taylorsville Rd
DARA
Chambersburg Rd
Fishburg Rd
Bellefountaine Rd
Brandt Pike
Powell Rd
201
Kitridge Rd
Needmore Road
Harshman Road
Wright Brothers Parkway
(Also known under various names: Turner Rd, Shoup Mill Rd., Needmore Rd. & Harshman Rd.)

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HF/50MHz TRANSCEIVER TS-890
BUSY / TX
7.005.000
7.007.000

HF/50MHz TRANSCEIVER
TS-890S

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- Rob Sherwood - NC0B - December 2018

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